

ANNUAL REPORT
OF
THE MINES BRANCH
OF THE
Department of Lands and Mines
OF THE
PROVINCE OF ALBERTA

1948



EDMONTON:
PRINTED BY A. SHNITKA, KING'S PRINTER
1949

Edmonton, Alberta,
February 19th, 1949.

TO THE HON. N. E. TANNER,
Minister of Lands and Mines.

SIR:

I herewith submit the Report of the Mines Branch for the year ending December 31st, 1948.

Respectfully submitted,

JOHN CRAWFORD,
Chief Inspector of Mines.

ANNUAL REPORT OF THE MINES BRANCH FOR THE YEAR
ENDING DECEMBER 31, 1948

(JOHN CRAWFORD, *Chief Inspector*)

The output of coal produced from mines in the Province during the year 1948 was 8,111,013 tons, with a valuation of \$41,875,044. This shows an increase of 36,417 tons over the tonnage produced in 1947, which was 8,074,596 tons, and an increase in valuation of \$5,557,701.

During the year the number of manshifts totalled 1,894,837. This is a reduction of 103,166 manshifts in comparison with 1947, in which year the number of manshifts totalled 1,998,003. This reduction can be partly attributed to the shortage of railroad cars, a situation which is prevalent in most of Alberta's mining centres; however, the largest contributing reason for the cause of the aforementioned reduction is the result of a stoppage of work which lasted from January 13th to February 26th at the union organized mines.

The disposition of coal during the year was as follows:

Sold for consumption in Alberta	1,593,367
Sold for consumption in other Provinces	3,186,570
Sold to the United States	84,495
Sold for shipment to Japan	200,947
Sold to railroad companies	2,312,273
Used making briquettes	302,545
Used making coke	78,795
Used under colliery boilers	165,171
Used by colliery railroads	1,333
Put to stock	131,983
Put to waste	145,639

The above tonnages include coal lifted from stock and waste heaps, which is not included in the total output.

Of the above output, 2,716,081 tons were produced from 77 strip mines operating in the Province. During the year production from stripping operations increased by 835,502 tons or 44½% over 1947, in which year the total was 1,880,579 tons. There was an increase of 12 strip mines in comparison with 1947, when 65 strip mines were in operation. It should be noted that the outputs from both stripping and underground methods of mining would have been much larger if there had not been a stoppage of work as a result of the causes as outlined in paragraph 2.

During the year seven shale pits produced 100,937 tons of shale and clay from which 28,997,749 bricks and 23,836 tons of hollow tile were made. The production of shale and clay has increased by 6,541 tons over 1947, and the number of bricks has increased by 2,792,131. A continued increase of hollow tile is also evidenced, amounting to 58 tons over the 1947 figure. The above figures again indicate that continued progress is being made by the clay products industry. Of the above clay output, 120 tons were imported from Saskatchewan.

There were 195 mines producing coal during the year, of which 18 were opened, 49 re-opened, 57 closed, and 17 abandoned. At December 31st, 171 mines were in operation.

There were 9,896 men employed during the month of December, this being an increase of 491 over the corresponding month of 1947.

During the year there was a total of 1,424 miners' certificates, miners' provisional certificates and miners' permits issued by the Inspectors, enabling the holders to proceed to the coal face as miners. This represents an increase of 194 in comparison with 1947. During the year regulations were passed to provide for training places in mines to enable persons who have had no previous mining experience to train to become miners; this, to some extent, is the reason for the increase in the number of men employed as at December 31st. There were also four more mines in operation during December, 1948, over the number in December, 1947.

During the year there were four first class or mine managers' certificates issued, 15 second class or overmans' certificates, 34 third class or examiners' certificates, 7 mine surveyors' certificates, 3 first class mine electricians' certificates, and eight second class mine electricians' certificates granted. In addition, 77 strip mine managers' certificates, 73 strip mine foremans' certificates, 27 strip mine blasters' certificates were granted.

During 1948, regulations were enacted to govern the operations of strip mines. As a result it is now mandatory that every strip mine shall be operated by persons holding certificates of competency for strip mines. To deal with such certification, a Strip Mine Board of Examiners was appointed, consisting of:

Mr. J. A. Dutton, Chairman of the Board, and representative of the Mines Branch.

Mr. George Wiggan, Mine Manager Kleenbirn Collieries Ltd., Eyremore.

Mr. William Stevenson, General Manager, Sterling Collieries Ltd., Sterco.

Mr. L. Gryschuk, Blairmore.

Mr. S. Nicholson, Calgary.

Miss M. Roberts, Secretary.

Messrs. Wiggan and Stevenson were appointed as representatives of the strip mine operators; Messrs. Gryschuk and Nicholson were appointed as representatives of the workmen employed. The said Board has met on two occasions since its inception to deal with certification under Regulation 5 of the Strip Mine Regulations and to prepare rules for the proper carrying out of these new Regulations.

During the year, 20 examinations were held throughout the Province for coal miners' certificates of competency, and 483 certificates issued to successful candidates (this includes 51 miners' duplicate certificates). There were also 762 permits as miners and 179 provisional certificates as miners granted.

Samples of mine air were taken during the year by the Inspectors and forwarded to the Chemistry Branch of the Department of Mines, Ottawa, for analysis. This has been done in addition to the tests made with the M.S.A. methane and other gas detectors.

Samples of coal and coal-dust were collected and forwarded to the Research Council of Alberta, Edmonton, for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts, this being in addition to the regular inspection of the mines. All complaints made to the Department were also investigated.

There were 17 prosecutions instituted for contraventions of the Coal Mines Regulation Act, made up as follows: 4 owners, 1 mine manager, 1 overman, 3 firebosses, 2 master mechanics, 2 miners, 1 machineman, 1 timber packer, 1 driver, 1 chute loader.

The purchased electrical power by the mines was 49,724,365 kw. hours, this being an increase of 1,831,768 k.w. hours over 1947. During the year the number of mines using electrical power was 87, an increase of four over 1947. The number of electrical coal cutting machines in use was 184, an increase of 18, and the total horse power of electric motors in use both above and below ground was 60,175 H.P., an increase of 4,765 H.P. over 1947. This clearly indicates the trend for electrification of mines in the Province.

It will be noted from the reports of the District and Electrical Inspectors that in the matter of installation of new equipment, very satisfactory progress is being made.

The trend toward the use of protective equipment in the mines is proceeding satisfactorily, there being in use during 1948: 5,306 hard hats, 3,671 pairs of safety shoes, 573 pairs of goggles, 240 pairs of knee pads.

The number of fatal accidents during the year was 13 as compared with 15 in 1947. This is a decrease of 13.3%, and equals 1.60 fatals per million tons of coal produced. This figure compares very favourably with the average rate in the United States and Great Britain.

As regards the aforementioned fatalities, five occurred on the surface and eight underground, as follows: rope haulage 3, horse haulage 1, falls of coal or rock 4, strip mining 1, box car handling 1, tippie machinery 1, repairing machinery 1, miscellaneous 1. In addition there was a very noticeable decrease in the number of accidents reported to this office during the year in comparison with 1947, i.e. during 1948 a total of 197 accidents were reported to this office while the corresponding total for 1947 was 253.

There were no changes in the staff of the Mines Branch during the year.

Tests are still being conducted in connection with the diesel locomotive put into operation last year. From reports received thus far, this type of locomotive is performing very satisfactorily under the conditions of its working arrangement.

Alberta's coal mines lost 327 operating days due to railroad car shortage and as a result the total estimated loss of production amounts to 320,000 tons. In addition, the mines in the East Coulee district lost 130 working days due to flood conditions.

(J. A. DUTTON, *Assistant Chief Inspector*)

During the year several meetings were held with representatives from strip mining operations and labour organizations to deal with the matter of drafting regulations to govern the operations of strip mines in the Province. These regulations have since been passed by Order-in-Council dated the 8th day of July, 1948.

Under the provisions of these regulations every strip mine must be under the supervision of persons holding a certificate of com-

petency as a strip mine manager, foreman, or blaster. To deal with such certification a Board of Examiners was appointed in accordance with Section 6(1), consisting of 2 strip mine operators, 2 strip mine workers, and a chairman and secretary from the office of the Mines Branch. The said Board met on two occasions, and recommended that 77 strip mine managers, 73 strip mine foremen and 27 strip mine blasters certificates be issued to applicants possessing the necessary qualifications as required under the provisions of Section 5(d). Four applications were rejected due to the fact that the applicant showed insufficient strip mining experience.

A meeting was also attended in connection with the revisions to the Coal Mines Regulation Act, at which time submissions from the Government, Operators' Associations, Labour Union and Firebosses Organization were dealt with at great length with representatives from each of the above-mentioned parties. The revisions which were agreed upon at this meeting now appear in the Coal Mines Regulation Act, being Chapter 8 of the Statutes of Alberta, 1948.

A visit was made to the mines in the Edson Inspectorate, together with the inspector for that district, to deal with the matter of methods of working in that area. An inspection tour was made to the mines in the Carbon and Big Valley area on the occasion of a visit to Drumheller to assist in the judging of a Mine Rescue Competition held at that city. Inspection tours were also made to the mines in the Warburg, Pembina and Edmonton areas with the inspector for these districts. In every instance I found that conditions at each mine are being properly taken care of by the district officers.

There were 14 miners' provisional certificates, 10 miners' permits and 51 miners' duplicate certificates issued from the main office in addition to those issued from the district offices.

A new table has been added to the report—this gives the output of coal in tons per manshift. It is interesting to note the gradual rise in output per shift over the recent years. This increase is due mainly to mechanization in both the underground and stripping operations. The output from strip mines alone has increased 700% over the last decade.

Considerable delinquency was again noticed during the year in connection with monthly production returns by coal operators. Failure to make these returns on the prescribed date delays both this Department and the office of the Dominion Bureau of Statistics, Ottawa, as regards forwarding the monthly statistical reports out to the general public on time. All operators in the Province should endeavour to have their returns in as early as possible to avoid any such interruption and possible prosecutions.

SUMMARY OF INFORMATION COMPILED FROM THE
REPORTS OF THE DISTRICT INSPECTORS
EDMONTON-CAMROSE INSPECTION DISTRICT

(J. THOMSON, *District Office, Edmonton*)

There were 76 mines operating in this district as of December 31st, 1948, as follows: Camrose 5, Castor 17, Edmonton 27, Halcourt 3, Pembina 10, Prairie Creek 1, Tofield 5, Westlock 3, Wetaskiwin 1, Whitecourt 1, Slave Lake 1, No Area 2.

Of this number, 30 are strip pits located as follows: Camrose 4, Castor 3, Edmonton 10, Halcourt 2, Pembina 8, Tofield 3, Westlock 3, Slave Lake 1, No Area 2.

I inspected all operating mines and made 171 inspections. All serious accidents and complaints were investigated.

Miners' examinations were held in Edmonton, Entwistle and Forestburg; 121 candidates passed the examination and were granted certificates. There were 107 miners' permits and 45 miners' provisional certificates granted from this office.

Sixteen coal samples were collected and sent to the Research Council, University of Alberta, for analysis, together with 21 special reflection of light samples.

Two mine air samples were collected and sent to the Bureau of Mines, Department of Mines and Resources, Ottawa, for analysis.

One road allowance lease was issued to the Edmonton Collieries Ltd., Namao.

Seventeen trade names were registered under The Coal Sales Act.

There were no prosecutions throughout the district during 1948.

Ten new mines were opened, located as follows: No. 1123, drift opening, by J. A. McKinnon at Gramania; No. 1674, slope opening, by the Wisla Bros. at Rosalind; No. 1677, drift opening, by J. Reed and Son at Forestburg; No. 1681, drift opening, by Edward Hughes at Mayerthorpe; No. 1670, strip pit, by Pinter and Son at Warburg; No. 1682, strip pit, by Rybert Pearson at Canyon Creek; No. 1683, strip pit, by Donvie Collieries Ltd. at Seba Beach; No. 1684, strip pit, by John Mucha at Ellerslie; No. 1686, strip pit, by Marwood Alexander at Athabaska; No. 1687, strip pit, by James Sturms at Genesee.

Mine No. 1644 was re-opened as a strip pit at Warburg, operated by Strawberry Creek Coal Co.

Seven mines changed ownership as follows: No. 419, Lakeside Coals Ltd. to Alberta Coal Co.; No. 1592, Donvie Collieries Ltd. to Swanson Collieries Ltd.; No. 1435, Ramstad and Wilkinson to Otteson and Tucker; No. 1409, Abernathy to Konchuk and Lardner; No. 1441, Marshall to Buckle Bros.; No. 1046, Battle River Coal Syndicate to Alberta Coal Co.; No. 1419, Pine Creek Collieries to Arthur A. Voise.

Five mines closed down as follows: No. 1630, Hunt at Gainford; No. 666, Osmack and Howlett at Forestburg; No. 1612, Pritchard at Blue Ridge; No. 1569, Watson at Blue Ridge; No. 1665, Grettum and Sand at Edberg.

Six mines were abandoned as follows: No. 29, Woytowich and Senetchko at Rabbit Hill; No. 610, L. Strilchuk at Ohaton; No. 1652, Larson and Fry at Seba Beach; No. 1541, Muncy at Foreman; No. 1646, John Mucha at S. Edmonton; No. 1649, Carl Schon at Moon Lake.

There were no fires or gas ignitions.

Two Domestic Permits were issued.

There were 17 accidents reported to this office, three from falls of roof, four on haulage, seven from miscellaneous causes and three on the surface. I am pleased to report there were no fatalities.

A wage dispute resulted in the larger mines being on strike from January 14th to July 16th. No shortage of railroad cars were reported in the district.

There was a shortage of manpower during the early fall, but the situation greatly improved towards the end of the year.

John H. Ainsworth and William R. Reed were appointed to the Miners' Examination Board for the Camrose and Castor areas.

Difficulty is being experienced by the operators in this district in obtaining a market for the smaller sized coals, and as a result the aforementioned coals are being stockpiled on the surface around the mines.

Thirteen seams of coal have been uncovered along the Cutbank River, 45 miles south of Grande Prairie, and appear to be a continuation of the mountain seams.

The following is a list of improvements and installations at the various mines in this district during the year:

Mine No. 99, The Great West Coal Co. Ltd., two new 26-inch Hugh Wood belt conveyors 300 feet long, with telescopic drums and 7.5 H.P. motors.

Mine No. 129, Sundance Mines Ltd., one 2-yard Dominion overhead shovel; one 60 cycle, 110 volt, 12.5 ampere lighting plant; and one 60 cycle, 6 kilowatt, 110 volt Hubert welder.

Mine No. 215, North Star, shaker screens on tippie and Calgary power.

Mine No. 251, Joe Tyrlik, one 7.5 kilowatt direct current generator, and one 3 H.P. Siskol coal cutter.

Mine No. 252, Tofield Coal Co., one 3/4-yard overhead Trackcator tractor.

Mine No. 428, Banner Coals Ltd., one Little Giant electric coal drill.

Mine No. 1357, Red Hot Coal Co. Ltd., one Goodman duckbill loader with 200 feet conveyor pans and aluminum booms. This installation did not prove successful and was resold.

Mine No. 1626, Starky Coal Co. Ltd., one Goodman duckbill loader.

Mine No. 1627, Carbondale Collieries, one C.E. 7 Sullivan coal cutter and Calgary power.

Mine No. 1635, Morinville Collieries, one 5B Sullivan coal cutter and Calgary power.

Mine No. 1653, Woodley Bros., Edison electric safety lamps.

Mine No. 1674, Wisla Bros., diesel driven compressor, radial coal cutters and jack hammer.

CALGARY INSPECTION DISTRICT

(W. E. G. HALL, *District Office, Calgary*)

There were 15 mines operating in this district during the year as follows: Cascade 3, Morley 1, Pekisko 1, Nordegg 2, Saunders 2, Carbon 4, Highwood 2.

Of this number, three are strip pits located as follows: Cascade 1, Nordegg 1, Highwood 1.

During the year there were 67 inspections made and reported upon in accordance with Section 5 of The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reported upon.

There were four examinations for Miners' Certificates of Competency held during the year, one at each of the following centres: Nordegg, Alexo, Saunders and Canmore. As a result of these examinations, 40 candidates were granted miners' certificates. There were 81 miners' permits and 7 miners' provisional certificates issued from this office.

Two coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

The Canmore Mines Ltd. have carried on extensive work in opening their No. 3 mine. Two slopes were sunk in the "Joe" seam to a depth whereby a pair of entries are being driven so that the lift above to the surface will permit the development of a new mine. A slope was sunk in the lower bench of the "Lower Marsh" seam, and a rock tunnel 8 ft. x 12 ft. was driven to a length of 873 feet, which intersected this seam at 806 feet and connected by an entry on the strike of the seam to the face of the above slope.

Two trade names were registered under The Coal Sales Act.

One operator was prosecuted during the year for failure to forward returns of production from his mine for the month of September, 1948. A conviction was obtained.

An underground mine was opened by the Kananaskis Exploration & Development Co. in conjunction with the operation of their present strip pit. This section of Mine No. 1667 is being electrified with the installation of a shaker conveyor.

At Mine No. 256 a new operation on No. 12 level is being opened up for the use of explosives and electrically driven shaker conveyor. In this operation the Brazeau Collieries are reclaiming coal which would otherwise be lost due to the lower workings having been abandoned.

The original P. Burns on Sheep River was re-opened by the Alberta Hard Coals Ltd. as Mine No. 1625. The rock tunnel driven in the early twenties was de-watered and ventilating equipment installed, whereby it was made possible to proceed in the tunnel for a distance of approximately 1,400 feet to the Sharp seam, which had run and filled the rock tunnel. Also an entry was driven from the surface in the upper bench of the Burns seam. This coal is being shipped to Ontario for demonstration purposes.

Mine No. 1619, operated by B. Ainsley & Sons, was closed for five months during the summer and as a result this mine became flooded; since re-opening in September, all coal has been produced from that developed above the water line in the present main slope.

During the year seven accidents were reported to this office including one fatality. Of these seven accidents, six occurred underground and one on the surface. This is a distinct improvement over the year 1947, when 22 accidents were reported.

It is very hard to determine as to why there should be a two-thirds drop in the number of accidents when the coal production in the district was in no way in the same ratio.

During my tenure of office in this district I have continually preached the use of protective clothing, and it is gratifying to note

that the use of hard hats is general in the district. It is my intention to promote the use of hard-toed shoes in the coming year.

The only serious labour trouble which occurred during the year was a strike which commenced in mid-January and lasted for 27 days. This loss of time seriously affected the total coal production in the Province in 1948.

The mines on the Brazeau Branch lost considerable time (approximately 45 days) due to a shortage of railroad cars and consequently a considerable loss in tonnage.

Generally speaking, the manpower situation is not as adequate as it should be. Mines in the district on the Canadian Pacific Railway report the situation as easing somewhat with labour of the floating type looking for work, but the mines on the Canadian National Railway report that the supply is inadequate and that the mines could absorb more manpower.

The only mine in this district affected by the difficulty of disposing of small sizes of coal is No. 1667 operated by the Kananaskis Exploration & Development Co., and in their case the zero to ¼ inch slack which has been stock piled will be used in the making of briquettes when their intended plant of 10 tons per hour is installed. Concerning the stoker size ¼ inch to 1¼ inch which is now stock piled, this will be disposed of when box car loading facilities are available.

The following is a list of installations and improvements which have taken place at the various mines in this district during the year:

At Mine No. 2, operated by the Canmore Mines Ltd., the following have been reported: The driving of a rock tunnel and sinking of two prospect slopes in two seams; the grading was completed for an electrified narrow gauge railway connecting the No. 3 mine with the tippie; a new power house and wash house to serve the new openings are under construction; a Joy Axivane fan H.84 is in the process of being installed to ventilate No. 4 seam; two electrically operated air compressors have been purchased; one 2,000 C.F.M. low pressure unit and one 500 C.F.M. high pressure booster.

At Mine No. 256, operated by the Brazeau Collieries Ltd., the following has been reported: One No. G 12½ Goodman conveyor driven by a 10 H.P. electric motor has been installed in 12 level.

At Mine No. 388, operated by the Bighorn and Saunders Creek Collieries Ltd., the following have been reported; a new telephone system has been installed connecting the underground workings with the surface—this consists of two permissible telephones underground and two on the surface; an electrically driven 1½ H.P. pump has been installed at the top of the main slope.

At Mine No. 1244, operated by Frank Wheatley and Sons, the following has been reported: A new air driven main ventilating fan has been installed.

At Mine No. 1359, operated by Balogh Bros., the following has been reported: A new tippie was erected during the year.

At Mine No. 1625, operated by the Alberta Hard Coals Ltd., the following have been reported: A 20,000 C.F.M. fan, driven by a gasoline motor, has been installed; a small portable air compressor has been purchased; a new tippie with storage bins has been erected.

At Mine No. 1638, operated by the Sheep River Coal Co., the following have been reported: A new road was constructed for a distance of 14 miles from the Forest Reserve boundary to the mine; a new tibble is under construction at Okotoks; small housing buildings were erected at the mine.

At Mine No. 1667, operated by the Kananaskis Exploration & Development Co., the following have been reported: The tibble has been extended and now includes a single roll crusher 16", a 24" belt conveyor 94 ft. centres, a model 70 Dillon vibrating screen, and a 14 ft. picking belt (48" in width); an air compressor (diesel powered) has been installed at the mine; a diesel powered generating unit, 50 K.V.A. 220 volt; two Radialax air driven coal cutters are now in use; one No. 12½ Goodman shaker conveyor, electrically driven, is in use at the mine; three air driven jack hammers are in use; four air driven coal picks are in use; 31 Model "P" Edison electric lamps with charging equipment have been installed; 12 2-ton mine cars have been purchased and are in use.

LETHBRIDGE INSPECTION DISTRICT

(E. H. MORGAN, *District Office, Lethbridge*)

There were 25 mines operating in this district during 1948: Brooks 1, Champion 3, Lethbridge 8, Milk River 1, Redcliff-Medicine Hat 6, Taber 6.

Of this number, five are strip pits located as follows: Brooks 1, Lethbridge 1, Taber 3. The number of shale pits totals five, and are located in the Redcliff-Medicine Hat area.

During the year there were 78 inspections made and reported upon in accordance with Section 5 of The Coal Mines Regulation Act. In addition, there were 59 inspections made and reported on for The Workmen's Compensation Board. All serious accidents and complaints were investigated and reported upon.

This office issued 34 miners' certificates, 96 miners' permits, 32 miners' provisional certificates.

Nine coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

Two trades names were registered under The Coal Sales Act.

A new strip mine was opened by L. C. McClain and Le Ray Meldrum on the river bed north of Magrath on sec. 18, tp. 7, rge. 21, W. of 4th mer.; coal is 3 ft. 6 in. thick with 15 to 20 feet of cover. Mine No. 1685.

Mine No. 738, operated by George Rollingson, is now being operated by J. A. Wukusich, Lethbridge, Alberta.

There were 20 accidents reported to this office, including one fatality. Causes of accidents are outlined as follows: Five from fall of coal, three from fall of rock, three from horse haulage, two from mechanical haulage, five from handling material, one from shaft hoisting, 1 from strip mining.

The labour relations in this district are very satisfactory and have been over the past year with the exception of a strike lasting from January 13th to February 20th inclusive.

The manpower situation in this district is fairly good. There would have been a shortage at the Galt Mine No. 1464 if they had not adopted a "Displaced Persons Training Scheme". There was a shortage of experienced miners at the Federal Mine No. 1581 in the period August-October inclusive.

Mines in the Lethbridge and Taber areas find no difficulty in disposing of their smaller size coals; at times the supply is not equal to the demand.

The following is a list of improvements and installation at the various mines in this district during the year:

Mine No. 1095, the Chester Mine, installed underground: Two Class I, Group D, 2 H.P. motors replacing two open type motors; one CR7008 switch; a new airshaft 5' x 7' and 160 ft. deep was recently completed. Installations on the surface include: One saw-mill; one steel lathe; one power hackshaw; a wash house is being constructed.

Mine No. 1263, Lethbridge Collieries Ltd., Shaughnessy: three Mecca auxiliary fans of 5 H.P. each; three Pyranol transformers 60 cycles, 50 K.V.A.; four Goodman shaker conveyors with drives and motors; one Hu-Wood drill panel to supply two drills; three A.B. shortwall machines of 50 H.P. each.

Mine No. 1464, Galt Mine, operated by Lethbridge Collieries Ltd., Lethbridge, installed underground: 26 new mine cars were built and put into use; one A.B. Dreadnaught Universal coal cutter; two Goodman G20 shaker conveyors complete with duckbills; two Chicago pneumatic portable coal drills; two 5 H.P. Meco blower auxiliary fans. On the surface a new impeller was built on to the main ventilating fan, and the 50 H.P. motor was replaced by a 75 H.P. motor and the speed of the fan was increased, thus increasing the quantity of air.

Mine No. 1581, J. J. Hamilton Coal Co., installed underground: Air slope put through to downcast shaft. Installed on the surface: A new rotary screen to size coal from slack to stove; a new box-car loader was installed at their loading point at Diamond City.

COALSPUR-MOUNTAIN PARK INSPECTION DISTRICT

(A. MUIR, *District Office, Edson*)

There were 10 underground mines operating in this district during the year, and in addition, eight strip mining operations. The strip mines comprise operations at Mountain Park, Cadomin, Gregg River, Luscar, Sterco, and Coal Valley, the latter two producing their whole output from this source of mining.

There were 92 complete inspections made in the district during the year. Additional visits were also made to various mines on official business in connection with investigations re serious and fatal accidents.

Examinations were held at Mercoal and Cadomin for miners' certificates. A total of 27 candidates presented themselves, all of whom emerged successful; 85 miners' permits and 8 miners' provisional certificates were also issued.

Several coal samples were collected at Cadomin and Luscar, and were forwarded to the Research Council, University of Alberta, for analysis.

There were several mine air samples taken at Mercoal. This was done as a precaution against any leaks from the seals that had been erected to smother a recent heating. All samples were forwarded to the Chemistry Branch of the Department of Mines and Resources, Ottawa, for analysis.

Nine prosecutions were instituted for contraventions of The Coal Mines Regulation Act: Mile 32, Bryan Coal Mine, 5; Mercoal, 2; Luscar, 2.

Bryan Hard Coal Co., Mine No. 1157, was temporarily closed in April of this year by the Acting Deputy Minister of Industries and Labour through default in payment of wages.

I am pleased to report that there were no ignitions of mine gases or mine fires in the district during the past year.

During the year there were two fatal accidents, 14 serious accidents, and 16 slight accidents. It was noted that quite a percentage of the foregoing were caused through negligence, particularly with reference to those that occurred outside. I investigated all of the above accidents.

Labour troubles were practically nil; a few exceptions were straightened out successfully to the satisfaction of all concerned. Co-operation on both sides created a sense of understanding which was a credit to a large district such as the Coal Branch.

The railroad car situation this year has again been the means of a serious loss in coal shipments. Periods in the early spring and the late fall reduced some of the mines to two days per week.

The manpower situation in this district has improved considerably from last year, although Mountain Park seems to suffer more from lack of manpower than any other mine; possibly the reason for this is the high altitude.

The conditions on the Coal Branch have been very satisfactory. All mines have improved their daily production, and some of them have extended their development in preparation for larger shipments. An extra railroad crew has been added at Coalspur to take care of Gregg River.

The following is a list of improvements and installations at the various mines in this district during the year:

At the Mountain Park Coals Ltd., Mine No. 282, the following new equipment was installed: A new bin with a capacity of approximately 200 tons was commenced during the year and will feed coal to the cleaning plant by a 400 ft. belt conveyor, which will be completed early in the coming year; a new garage has been erected at Cheviot Creek to accommodate the stripping equipment; a 1,500 cubic compressor was removed from Luscar to Mountain Park in order to permit this Company to proceed with the mechanization of their underground workings; one 54-B Bucyrus-Erie 2½ yard shovel; one 1-22-B Bucyrus-Erie ¾ yard shovel; two 14-yard Euclid trucks; one LeRoi 315 compressor; one Cleveland wagon drill mounted on truck.

At Cadomin Coals Ltd., Mine No. 693: One new jeep for general use; two International trucks for coal haul; washery completed and in operation; ditto and adding machines purchased for general office;

power line to west mine rebuilt; Harland pump 150 H.P. installed in shaft mine; two Eimco loaders; two DA-35 drifters; two R-58 stoppers.

At Gregg River Collieries, Mine No. 1137: One new washhouse has been built; a new office almost erected; one set of Fairbanks scales has been installed.

At Luscar Coals Ltd., Mine No. 905: Considerable building took place about the plant during the year; one new quonset hut 120 ft. by 40 ft. was purchased for use as a garage; this building is completely fireproof, being a steel construction set up on a 2 ft. high concrete wall with 6 in. to 8 in. concrete floor. Good progress was made on the erection of a briquette plant; in this connection a 250-ton storage bin for small coals was built, an 80-ton storage bin for the briquettes, and also a large building to house the actual briquetting machinery. All work on this project is practically completed. Several additions were put on dwellings for the benefit of employees, and one 3-room house was built. Due to increased stripping, it was necessary to purchase a new $\frac{3}{4}$ -yard Bucyrus-Erie shovel. Two 315 LeRoi air compressors were installed.

At McLeod River Hard Coal Co., Mine No. 846: A second trolley locomotive was installed for operation on No. 3 level; a 200 H.P. electric powered dewatering pump was added to the pumping station in No. 4 level; a diamond drilling program was completed to determine the coal seam beyond the 4 East fault.

At Foothills Collieries Ltd., Mine No. 771: During the year extensive repairs were made to their tipples; new bins were put into operation with a triple deck Dillon vibrating screen; a picking table for hand picking egg and nut sizes; a Jeffrey continuous bucket elevator; a degradation screen was installed beneath the bin, and a conveyor delivering to a Wilson loader; a 7 ft. wide screen; new model P lamps replacing model K cap lamps were installed; a 75 H.P. electric hoist was installed at their new slope; 25 steel cars 42 in. gauge with 16 in. wheels were put into operation.

At Coal Valley Mining Co., Mine No. 1002: One D.W. 10 diesel tractor with Athey wagon was purchased; one D8 caterpillar with dozer; five new buildings on property.

CROWSNEST INSPECTION DISTRICT

(J. D. B. BROWN, *District Office, Blairmore.*)

At the year's end there were nine mines in operation in this Inspection District. There were seven mines operating in the Crowsnest area and two mines in the Pincher area.

There are now six strip mines in operation in the Crowsnest area, situated as follows: Greenhill Mine No. 396 (two strip mines), International Mine No. 88, McGillivray Mine No. 204, Bellevue Mine No. 87, Hillcrest Mohawk Mine No. 133. All of the strip mines are owned and operated by the established underground mining companies.

There were 94 complete inspections and 37 partial inspections made of the mines in this inspectorate during the past year by Mr. Lister, Assistant District Inspector, and myself, and in addition to the above there were visits to the mines for the purpose of collect-

ing air samples, coal samples, and mine dust samples; also visits were made to check up on all new installations, dewatering of underground areas, and other relative matters.

All serious accidents were investigated and all inquests were attended, and steps were taken to remove any hazards brought to light. All complaints were investigated and remedial measures instituted. Preventive measures were taken to remove certain hazards consequent to the transportation of men on roads frequented by heavy truck traffic on coal haulage roads.

Six miners' examinations were held during the year. There were three at Bellevue on the following dates: March 6th, July 30th and October 14th. The remaining three were held at Coleman on the following dates: March 5th, July 23rd and October 15th. There were 98 miners' certificates granted at the above examinations, and during the same period 180 miners' permits were issued together with 24 miners' provisional certificates.

Four coal samples were collected and forwarded to the Research Council, University of Alberta, for analysis.

Five mine air vacuum bottle samples were collected and forwarded to the Bureau of Mines, Ottawa, and 18 samples of diesel exhaust gases were collected and sent to Ottawa for analysis. Regarding the diesel exhaust samples, confirmatory tests were made at the same time with the M.S.A. "Colorimeter" CO Tester, a machine which will read amounts as low as .002%, and to date satisfactory results have been obtained with this instrument.

Volumetric tests were carried out on 28 mine dust samples and the results tabulated. Conclusions formed on these tests were communicated to the mines concerned, i.e. from where the samples were obtained.

One trade name was registered under The Coal Sales Act.

Only one prosecution was instituted during the year. A timber packer, employed by the International Mine was prosecuted for being in a mine while in a state of intoxication, a heavy fine being imposed.

Three new strip mines began operations during the year. The Bellevue Mine No. 87, West Canadian Collieries Ltd., began operations on the outcrop of the No. 1 seam south of the underground (Adanac) mine. The seam is a clean, hard and blocky coal of low ash content and a fairly good output is hauled by truck to the Bellevue tippie some eight miles distance from the pit.

The Hillcrest Mohawk Collieries, Mine No. 133, have begun operations on a strip mine on the outcrop of the old Hillcrest mine on No. 1 seam, also intermittently on No. 3 seam at Maple Leaf basin. These efforts are on a modest scale at present.

The McGillivray Mine No. 204 have obtained a small quantity of coal from the surface on the No. 4 seam above D level. This coal is dumped from the surface down a raise from D level and there loaded into mine cars. This operation is also on a very small scale.

A change of ownership took place when M. Woods of Mine No. 199 sold out his interests to a group of men now known as the Beaver Mines Coal Co.

Accidents reported to this office in accordance with Sec. 80 of The Coal Mines Regulation Act numbered 47, a reduction from last year. Five of these fatalities and the remainder are classified as

25 serious and 17 slight. Twelve accidents took place on the surface including two fatalities, and 35 occurred underground including the remaining fatalities. Eye accidents were much more severe in the previous year than in 1948, which is an improvement. The severity of injuries is slightly lower than in the previous year.

With the exception of the strike which lasted from January 13th to February 18th, there has been no labour troubles. Shortage of railroad cars cost the mines in this district 96 working days, an average of 16 days for each mine. One of the mines lost 27 days due to this cause alone. Breakdowns at the mines cost an average of two days throughout the year.

The demands for unskilled labour at the mines is almost completely satisfied. This need has been met with the arrival of Polish veterans and other immigrants, generally with some underground experience. There is still a demand for skilled certificated miners at some of the mines. Generally, the mine management of the various mines are resigned to training the unskilled men with enough underground experience in their employ.

The following is a list of improvements and installations at the various mines in this District during the year.

The Hillcrest Mohawk Collieries have purchased the following equipment for use on their strip operation: One D7 caterpillar; No. 70 scraper; one Bucyrus-Erie scraper; one Bucyrus-Erie ripper; one T.D. International caterpillar, equipped with bulldozer and overhead loader; three small K.D. $\frac{3}{4}$ -ton trucks; one jeep; one diesel powered 350 cu. ft. air compressor, Ingersoll-Rand; for use underground they have purchased two small air turbine pumps for sinking.

At the Bellevue Mines, West Canadian Collieries Ltd., they have purchased for use underground: One Gardner-Denver loader, compressed air powered. An endless rope system has been installed in No. No. 4 level, 61 section. It is operated by a 50 H.P. electric motor situated outside of the mine entrance. On the surface they have rebuilt the wash-house roof and have added efficient ventilators. A new steel bridge has been erected over the Adanac coal dump at the Bellevue tippie to accommodate the new Hayes-Lawrence 55-ton truck. A new scale has been added to accommodate trucks hauling from the strip mine and the Adanac mine. The bridge over the Oldman River, over which the coal trucks pass, has been reinforced and strengthened. A garage has been constructed to house the Hayes-Lawrence truck, and it has been equipped with steam heat and water; the fuel lines have been carried to the inside of the building. The road to the strip and Adanac mine has been straightened, widened and also gravelled.

The Adanac Mine have installed a new 600 cu. ft. air compressor and purchased and placed in operation one Hayes-Lawrence 55-ton truck powered by a 200 H.P. diesel engine equipped with sanders and air operated dump doors. Underground they have installed: one electrically operated 25 H.P. "Joy" loader; two Anderson electric 50 H.P. Shortwall machines with 9' cutter bars; one Goodman 512 Shortwall 50 H.P., electrically operated with 7' cutter bar; one car spotter hoist; two Hugh-Wood air driven auger drills.

At Greenhill Mine, West Canadian Collieries, they have replaced a wood constructed snow-shed with a steel and galvanized iron structure over 500 feet in length. Replaced a 600 cu. ft. air com-

pressor, Ingersoll-Rand, with a 31 W.N. Sullivan direct connected compressor of 1700 cu. ft. capacity. On the tippie they have installed three Brussett-McNally air jigs and constructed a 300 tons capacity briquette storage bin of steel construction. Underground they have placed into operation one Goodman storage battery in the No. 7 level entry.

At the International Mine they have built three garages to house the trucks, and built storage capacity for coal hauled by truck, at the tippie, to hold 200 tons. They have widened and improved the road to the strip mine and built about a mile of new road to the strip and to the prospect beyond the strip. They have constructed a 20-ton capacity bin at the prospect. Beside the garage where the trucks are housed, they have built a repair shop to service their trucks. They have purchased one K.D. 10, and one K.D. 8, and a Case loader. The electricity has been extended to the prospect. Underground they have installed a "Joy" 8 BU loader, and built a steel and concrete pump room on E level. The dewatering of C level, York Creek, was successfully completed, and the underground and engineering staff are to be complimented on a job well done.

DRUMHELLER INSPECTION DISTRICT

(J. HORNE, *District Office, Drumheller*)

There were 63 mines operating in this district as of December 31st, 1948, as follows: Drumheller 2, Ardley 10, Sheerness 5, Big Valley 2, Castor 8, Gleichen 5, Carbon 9.

Of this number, 19 are strip pits located as follows: Drumheller 1, Ardley 8, Sheerness 4, Castor 3, Carbon 3.

During the year 249 complete mine inspections were made. In addition to the regular inspections, all serious and fatal accidents have been investigated and all inquests have been attended.

Examinations for miners' certificates were held in Drumheller January 30th, April 23rd and September 24th, and 114 certificates were issued. During the year, 199 miners' permits and 53 miners' provisional certificates were issued.

Eight coal samples were collected and sent to the Research Council, University of Alberta, for analysis.

One mine air sample was collected and forwarded to the Department of Mines and Resources, Ottawa, for analysis.

Eleven trade names were registered under The Coal Sales Act.

Five prosecutions were instituted for contraventions of The Coal Mines Regulation Act. At Delburne, three for illegal mining and one for failure to complete monthly production returns; at Drumheller, one for misrepresentation of age by affidavit. Five convictions were obtained.

Five new mines were opened: 1669, Joy Coal; 1680, Blackhall Coal; 1671, strip pit, D. N. Stewart; 1673, strip pit, Gordon Coal; 1676, strip pit, Black Star Coal.

Nine mines were temporarily closed. The underground operations include: 1515, Willow Creek Coal; 1544, Wayne Co-op. Association, Ltd.; 1586, Kehl and McGladrie; 1660, Ball Mine; the strip

operations include: 1314, Gowan Coulee Coal; 1398, Ironsides Coal; 1613, Wm. Barrell; 1661, The Campkin Mine Coal; 1666, Livingstone Coal Co.

One mine changed ownership as follows: Mine No. 969, James Blades to Karl Schnepf.

Four mines were abandoned. The underground operation includes Mine No. 299, Bright Hard Coal. The strip pit operations include: Mine No. 1117, O. W. Whittaker; Mine No. 1668, Lion Coal; 1671, D. N. Stewart.

One mine fire was reported. It occurred in Room II, six South entry of the Red Deer Valley Coal Mining Co. Ltd. on April 8th, and resulted from a pellet powder shot. The fire was immediately extinguished.

One domestic permit was issued, i.e. No. 699 in the name of F. E. Martins.

During the year, 74 accidents were reported to this office, seven of which occurred on the surface and 67 underground. I regret to report that four fatal accidents occurred in the district during 1948, two at surface machinery and two from falls of rock.

In addition to the 28-day general strike, Mine No. 1520, Minute Mine, was on strike for two days; Mine No. 422, Commander Mine, and Mine No. 1115, Aetna Coal Co. were on strike for one day each; grievances were successfully ironed out. The mines of the valley lost an average of six days production due to shortage of railroad cars—this was in most cases caused by excessive spring floods. There were 23 days lost through a shortage of orders; in addition, most mines have experienced difficulty in disposing of slack and stoker size coal. No time has been lost in this respect.

Strip pits supplying local truck trade have not been as active as during the preceding year. Some small underground operations are also working on short time, the probable result of exceptionally good weather. Although not as acute as formerly, a shortage of experienced miners continues, this being a general complaint of the East Coulee mines.

Messrs. T. Campbell, mine manager, and J. Conroy, miner, were appointed to the Miners' Examination Board.

The following is a list of improvements and installations at the various mines in this district during the year:

At Mine No. 194, Knee Hill Coal Co.: One 12-ton and one 15-ton Fairbanks scales; two scale houses 14 ft. by 16 ft.; one loading chute 12 ft. by 34 ft.

At Mine No. 346, Rosedale Calleries Ltd.: One 550 H.P. M.G. set housed in flameproof vault; one 75-ton per hour capacity coal crusher.

At Mine No. 367, Midland Coal Mining Co.: One No. 3 Sheldon fan and 2 H.P. Leyland electric motor; one 6 ft. Steine fan and 10 H.P. Westinghouse motor.

At Mine No. 384, Inland Coal Co.: Replaced steam winding engine with an electrically driven hoist; underground, one 10 K.V.A., 230 volt General Electric capacitor.

At Mine No. 402, Red Deer Valley Coal Mining Co.: One approved 8 BU Joy loader; one 8-ton General Electric trolley locomotive; two approved Anderson-Boyes shortwall cutters; one 5-ton Fairbanks scale.

At Mine No. 422, Commander Mine: One approved 8 BU Joy loader; one approved 35 H.P. IIB Sullivan shortwall undercutter; one 3 ft. 6 in. Aerodyne fan.

At Mine No. 436, Star Mine: One 30 H.P. Sullivan ironclad shearing machine; one 6-ton Goodman battery locomotive; one M.G. battery charging set housed in flameproof vault.

At Mine No. 620, Newcastle Collieries Ltd.: One 75 K.V.A. 2300/220 volt pyranol transformer.

At Mine No. 728, Maple Leaf Coal Co. Ltd.: One Goodman G20-B-77 duckbill unit.

At Mine No. 864, Big Valley Coal Co.: Wash-house 16 ft. by 24 ft.

At Mine No. 1258, Brilliant Coal Co.: One 5 ft. Ladel-Troller L9 fan and 20 H.P. English electric motor; one 6-ton approved Mancha storage battery locomotive; one coal crusher of 50-ton per hour capacity.

At Mine No. 1299, Empire Mine: Two Goodman G20-B-77 duckbill units; one 30 H.P. CE7 Sullivan undercutter; one 6-ton Mancha storage battery locomotive.

At Mine No. 1484, Atlas Mine: One 8BU-13G Joy loader; one approved 4½-ton Atlas battery locomotive; one 7AU Sullivan Universal coal cutter; one 10-ton Jeffery trolley locomotive; one M.G. set, battery charging, housed in flameproof vault; one 125 H.P. M.G. set housed in flameproof vault.

At Mine No. 1491, Murray Collieries Ltd.: One General Electric 45 K.V.A. 2300 volt capacitor at tipple; one 30 K.V.A. 230 volt General Electric capacitor, underground.

At Mine No. 1493, Western Gem and Jewel Collieries Ltd.: Two Goodman G20-B-77 shaker conveyors; one Goodman longwall undercutter; one Anderson-Boyes longwall undercutter; one large lathe.

At Mine No. 1573, Monarch Coal Mining Co. Ltd.: One 22-passenger International school bus and garage (24 ft. by 30 ft.); one approved Hu-Wood rotary coal drill; three approved 7B Sullivan undercutters complete with bug-dusters and power take off; one modern main mine office 24 ft. by 26 ft.

At Mine No. 1597, A. J. Bordula: One Hoover overhead diesel powered, caterpillar mounted shovel; one small coal screening plant complete with three bins and loading chutes.

At Mine No. 1669, Joy Coal: One English Siskol coal cutter and a small tipple.

At Mine No. 1680, Blackhall Coal: Small tipple and loading chute.

ELECTRICAL INSPECTION OF MINES

(BURTON TAIT, *Electrical Inspector of Mines*)

During 1948, there were 92 mines in the Province using electrical equipment. In addition to these, seven small mines have electric cap lamps, battery charging apparatus, or electric signals. All mines where blasting operations are carried on now use electric shot-firing apparatus and a great many have electric gas detecting devices.

Examinations for Mine Electricians' Certificates were held on May 25th. Seven candidates wrote the first class examination, of whom three were successful, and 10 candidates wrote the second class exams, seven of whom were successful.

All mines using electrical equipment have been inspected during the year. There were 114 complete inspections and six partial inspections made; this in addition to attending to all correspondence dealing with electrical matters pertaining to mines.

Two accidents, neither serious, caused by the use of electricity, were reported during the year. In each case an electrician's helper received burns to his hands while opening switchgear.

Fire destroyed the power house and 100 K.V.A. diesel-electric generator at the tipple of the Kleenbirn Collieries Ltd., near Eyremore. No casualties or injuries reported.

Eight mines started using electrical equipment for the first time during 1948, four of these being new mines.

Major electrical installations in and about mines during 1948 are as follows:

Standard Mine, Lethbridge Collieries Ltd.: four Goodman shaker conveyors; one chain drag conveyor; three Anderson-Boyes shortwall coal cutting machines; three 50 K.V.A. 3-phase Pyranol transformers.

Red Deer Valley Coal Co. Ltd.: Two Goodman shaker conveyors; two Anderson-Boyes shortwall coal cutting machines; one 8-ton trolley locomotive; one 8BU Joy loader; one 100 K.V.A. Pyranol transformer, 3-phase.

Commander Mine, Century Coals Ltd.: One Atlas battery locomotive; one Joy loader, 8BU; 1 Joy-Sullivan shortwall coal cutting machine.

Rosedale Mine, Rosedale Collieries Ltd.: Two Goodman shaker conveyors; one belt conveyor; one Goodman slabbing machine, 60 H.P.; two Goodman shortwall coal cutting machines; one Goodman face loader, 60 H.P.

Greenhill Mine, West Canadian Collieries Ltd.: Above ground, motors totalling 1063 H.P.

Adanac Mine, West Canadian Collieries Ltd.: Three Anderson-Boyes shortwall coal cutting machines; one Goodman shortwall coal cutting machine.

Monarch Coal Mining Co. Ltd.: Three new Joy-Sullivan shortwall coal cutting machines.

There have been numerous smaller installations during the year. In addition to the construction of power lines, sub-stations, lighting, heating and rectifier installations, the horsepower of motors installed totals approximately 4,000 H.P.

At December 31st, 1948, the total H.P. of motors in use at mines is as follows: Above ground 41,633, underground 18,540. Total above and below ground, 60,173 H.P.

The figures below show the trend in the use of certain types of electrical equipment underground in mines:

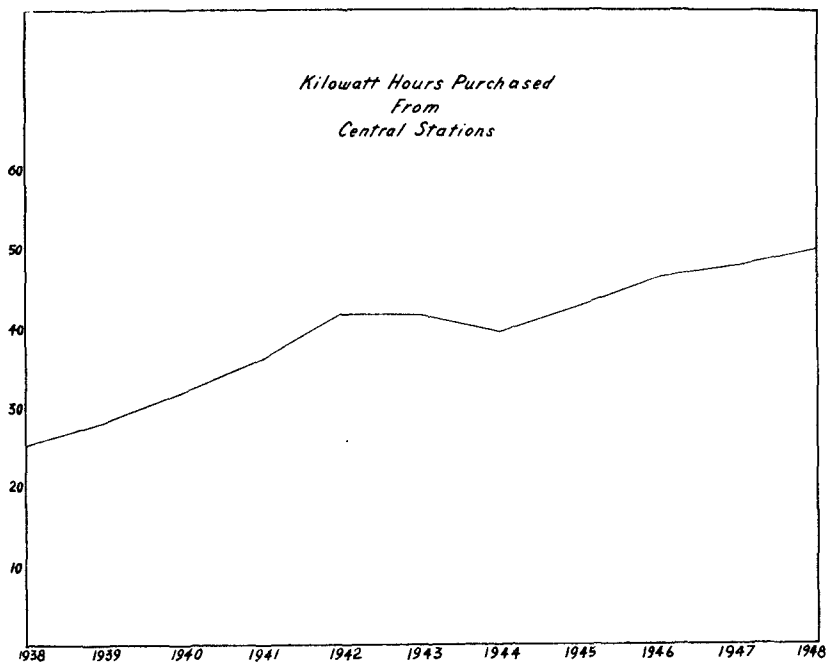
	1945	1946	1947	1948
Coal cutting machines	147	155	166	184
Coal drills	31	40	52	59
Conveyors	23	27	38	47
Battery locomotives	32	37	39	39
Trolley locomotives	15	16	19	25
Mobile face loaders			1	6

The majority of electrified mines are supplied with power from central stations. In addition, local steam plants with a capacity of 9,030 K.V.A. and diesel and gas powered plants with a capacity of approximately 800 K.V.A. are in use.

There has been some extension of power lines by the Power Companies to supply mines, but in some cases single phase power has been supplied, limiting these mines to small single phase loads.

A number of new electric coal cutting machines have been purchased by some of the mining companies to replace older types which are becoming costly to maintain. This is all to the good, as the newer machines have modern safety features not incorporated into the older types.

Generally speaking, the standard of the electrical installations in and about mines has been raised considerably. The fact that the mining companies must employ qualified certificated electricians has had a gratifying effect on the type of work being done.



ANNUAL PRODUCTION OF COAL FROM MINES IN THE PROVINCE OF ALBERTA

The following table is taken from a report prepared by the Dominion Bureau of Statistics and published in "Coal Statistics for Canada" for the year 1947:

Calendar Year	Short Tons	Value
1886	43,220	\$ 81,112
1887	74,152	157,577
1888	115,124	183,554
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,605
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,679	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,284
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,933,660	18,205,205
1920	6,907,765	30,186,933
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,864,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,753,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,283	13,698,470
1939	5,519,208	14,415,281
1940	6,203,839	16,377,959
1941	6,969,962	19,382,471
1942	7,754,053	22,624,410
1943	7,676,726	24,030,686
1944	7,428,708	26,814,957
1945	7,800,151	27,751,377
1946	8,826,311	33,441,930
1947	8,070,430	36,439,095
Total	228,573,680	\$726,059,269

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1947 the mine output figures are given.

ANNUAL CONSUMPTION OF COAL IN CANADA, 1902-1947

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1947:

Year	Canadian*		Imported coal "Entered for consumption"				Total		Per Capita
			From U.S.A.		From Great Britain		Total†		
	Short tons	%	Short tons		Short tons		Short tons	%	
1902	5,376,413	53.1	4,656,286		101,726		4,734,559	46.9	10,110,972
1903	6,005,735	47.3	6,520,931		184,593		6,678,450	52.7	12,684,185
1904	6,697,183	47.9	7,238,869		85,687		7,297,482	52.1	13,994,665
1905	7,032,661	48.4	7,233,738		68,500		7,215,446	50.6	14,249,107
1906	7,927,560	50.5	7,787,338		67,014		7,758,325	49.5	15,685,885
1907	8,617,352	45.0	10,588,697		54,325		10,549,503	55.0	19,166,855
1908	8,156,478	47.3	10,203,355		97,514		10,195,424	52.7	19,351,902
1909	8,913,376	47.9	9,805,253		67,671		9,711,826	52.1	18,625,202
1910	10,532,103	50.2	10,545,451		51,541		10,437,123	49.8	20,970,226
1911	9,822,749	40.5	14,510,129		48,963		14,424,949	59.5	24,247,698
1912	12,385,696	46.0	14,597,124		38,668		14,549,104	54.0	26,934,800
1913	13,450,158	42.6	18,145,769		37,825		18,132,387	47.4	31,582,545
1914	12,214,403	45.5	14,687,853		33,101		14,637,920	54.5	26,852,323
1915	11,500,480	48.1	12,450,796		15,098		12,406,212	51.9	29,906,692
1916	12,348,036	41.3	17,576,202		4,401		17,517,820	58.7	33,855,856
1917	12,313,603	37.2	20,848,009		9,451		20,810,132	62.8	33,123,735
1918	13,160,731	37.8	21,674,826		3,761		21,611,101	62.2	34,771,832
1919	11,611,168	40.3	17,292,913		344		17,236,269	59.7	28,847,437
1920	14,025,566	42.9	18,752,981				18,668,741	67.1	32,694,307
1921	12,715,734	41.1	18,300,081		1,591		18,258,387	58.9	30,974,121
1922	13,044,352	50.2	12,255,555		765,980		12,962,189	49.8	26,006,541
1923	15,070,962	41.8	20,417,239		572,570		20,967,971	58.2	36,038,933
1924	12,529,358	42.8	16,405,344		317,112		16,714,143	57.2	29,243,501
1925	12,125,290	42.6	15,744,957		604,117		16,331,971	57.4	28,457,261
1926	15,086,296	47.7	16,204,405		287,299		16,565,555	52.3	31,651,851
1927	15,944,983	46.7	17,266,434		907,220		18,177,303	53.3	34,122,286
1928	16,487,807	50.0	15,830,688		682,755		16,515,582	50.0	33,003,389
1929	16,387,461	48.0	16,780,452		843,502		17,724,132	52.0	34,111,593
1930	14,052,671	43.3	16,971,933		1,144,861		18,412,039	56.7	32,464,710
1931	11,682,779	47.7	11,793,798		987,442		12,828,327	52.3	24,511,106
1932	11,212,701	49.0	9,889,866		1,727,716		11,654,492	51.0	22,867,193
1933	11,456,273	51.5	8,865,935		1,942,875		10,808,962	48.5	22,265,235
1934	13,236,406	51.1	10,580,710		1,981,116		12,651,168	48.9	25,887,574
1935	13,306,303	53.1	9,618,518		1,822,500		11,735,835	46.9	25,042,138
1936	14,508,642	53.3	10,801,643		1,498,656		12,719,515	46.7	27,228,167
1937	15,172,729	51.5	12,574,574		1,211,052		14,268,585	48.5	29,441,314

1938	13,860,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2,281
1939	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2,597
1940	16,666,234	49.5	15,509,778	1,514,458	17,036,090	50.5	33,702,324	2,960
1941	17,227,151	46.2	19,332,479	693,902	20,026,082	53.8	37,253,233	3,238
1942	17,725,761	42.4	23,735,334	388,010	24,122,916	57.6	41,848,677	3,591
1943	16,321,006	37.1	27,303,778	391,475	27,895,098	62.9	44,016,104	3,727
1944	15,660,808	35.7	27,948,008	218,511	28,166,201	64.3	43,827,009	3,659
1945	15,227,819	38.3	24,505,241	28,388	24,521,528	61.7	39,749,347	3,279
1946	16,502,508	39.0	25,639,541	101,580	25,740,704	61.0	42,243,212	3,434
1947	14,673,967	34.0	28,410,149	52,777	28,462,242	66.0	43,136,209	3,428

*The sum of Canadian coal-mine sales, colliery consumption, coal supplied to employees, and coal used in making coke, etc., less the tonnage of coal exported.

†Includes small tonnages from countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada and bituminous coal ex-warehoused for ships' stores.

Imports of coal and coke briquettes not included.

THE MINES BRANCH

The following table shows the quantity of coke imported into Canada during the years 1946, 1947, 1948, through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Ports in Province of	1946		1947		1948	
	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal
Nova Scotia		135		13,405		11,589
Quebec	161,660	25,301	194,222	18,057	2,804	530,694
Ontario	60,295	863,467	61,557	500,272	292,391	17,249
Manitoba		17,823		27,821	534	477
Saskatchewan						1,701
British Columbia	68	2,282	3,734	2,923	626	193
Alberta		32		502		
Prince Edward Island						
Total	222,023	909,111	259,613	563,305	296,355	561,903

Imports of Coal for each year since 1919, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,709	12,336,903	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,607	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,109	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,195	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	12,213	1,327	998	26,077	8,427,656
1934	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722(a)	9,549,457(b)
1936	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524(d)	10,200,253(e)
1937	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540(g)	12,241,270(h)
1938	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701(k)	9,567,334(l)
1939	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808(n)	9,903,613(o)
1940	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705(x)
1941	13,910,140	29,608	26,523	765,376	14,731,647	10,021	671	1,062	1,646	17,867,068
1942	14,397,298	292,783	51,942	1,212,815	15,954,838	21,568	773	789	1,573	20,807,005
1943	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	732	1,002	1,611	24,393,798
1944	14,236,472	271,617	364,674	2,195,070	18,485,923	16,255	556	935	1,236	24,513,527
1945	14,236,472	262,266	290,856	1,320,728	16,110,322	20,397	642	1,221	1,682	21,176,811xx
1946	16,827,178	331,674	322,295	1,946,218	16,872,365	16,265	686	1,038	1,790	22,000,398xxx
1947	17,472,356	340,450	396,647	1,972,434	19,536,887	26,146	560	806	1,866	25,841,440xxxx
1948	17,774,268	3,142,251*		1,972,434	20,916,519	78,047	485		29,686	25,907,103†

xConsists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.

xxConsists of 21,176,805 tons from the United States and 6 tons from Great Britain.

xxxConsists of 22,000,314 tons imported from the United States and 84 tons from Great Britain.

xxxxConsists of 25,839,917 tons imported from the United States, 1,087 tons imported from Great Britain, 431 tons from Belgium and 5 tons from Alaska.

†Includes briquettes and lignite coal.

*Includes Fort Frances and Fort William.

ANTHRACITE COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia & Yukon	Total Canada
1919	2,977,913	119,234	559	346,442	3,444,148	12,906	...	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,221,464	17,509	206	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,867,370
1922	1,586,924	21,507	12	36,018	1,644,461	4,715	231	...	1,261	2,693,937
1923	3,061,779	28,229	429	54,329	3,144,766	55,856	2,291	...	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	...	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926	2,458,674	...	56	60,810	2,519,494	17,990	464	...	5,202	4,242,932
1927	2,123,515	...	51	79,283	2,202,849	15,885	484	...	3,812	4,063,619
1928	2,179,022	...	42	57,494	2,236,558	10,130	579	...	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	...	597	4,019,917
1930	2,080,457	...	224	45,241	2,125,922	8,323	367	...	1,123	4,256,090
1931	1,615,643	...	...	18,302	1,633,945	3,695	...	3	33	3,178,141
1932	1,250,755	...	3	12,677	1,263,435	3,800	...	75	702	3,138,157
1933	1,129,041	...	8	8,742	1,137,791	5,669	57	...	3,657	3,035,613
1934	1,374,881	...	3,030	7,934	1,385,845	6,086	...	...	282	3,537,309
1935	1,370,119	...	19	9,455	1,379,593	5,852	40	...	1,600	3,451,318(e)
1936	1,436,613	...	135	16,350	1,453,098	5,884	58	...	1,151	3,530,040(f)
1937	1,608,653	...	8	21,052	1,629,713	5,639	66	34	61	3,572,268(j)
1938	1,697,601	...	69	16,050	1,713,720	4,674	39	33	280	3,714,001(m)
1939	2,043,142	...	297	18,459	2,061,398	4,696	...	...	...	3,977,805(p)
1940	2,033,585	...	...	...	2,044,156	4,466	34	16	236	3,964,862(q)
1941	2,343,406	...	...	...	2,362,433	10,021	...	23	30	3,940,859
1942	2,807,479	...	...	...	2,816,165	7,093	...	7	...	4,802,023
1943	2,502,024	...	...	...	2,513,199	16,336	...	4	110	4,458,519
1944	2,528,190	...	42	2,932	2,535,976	9,723	1	...	62	4,413,227
1945	2,008,208	1,977	513	13,394	2,792,381	6,198	...	1	6,200	3,411,424x
1946	2,776,497	1,831	126	9,825	2,924,411	11,718	...	...	...	4,639,347xx
1947	2,912,629	56,708*	...	...	2,924,411	10,797	...	11	51	4,464,007xxx
1948	3,287,858	...	...	...	3,344,566	3,197	...	...	2,116	5,142,529†

xConsists of 3,383,042 tons imported from the United States and 28,382 from Great Britain.

xxConsists of 4,537,852 tons imported from the United States and 101,496 from Great Britain.

xxxConsists of 4,412,285 tons imported from the United States and 51,722 from Great Britain.

†Consists of 4,966,755 tons imported from the United States and 175,754 tons from Great Britain.

*Includes Fort Frances and Fort William.

(a) Includes imports into the Yukon Territory of 10 tons in July and 10 tons in October.

(b) Consists of 9,168,428 tons imported from the United States, 380,645 tons imported from Great Britain, 43 tons imported from Alaska, 285 tons imported from Norway, 55 tons imported from Estonia and 1 ton imported from Poland.

- (c) Consists of 1,670,085 tons imported from the United States, 1,454,521 tons imported from Great Britain, 205,045 tons imported from Germany, 67,220 tons imported from Belgium and 54,447 tons imported from French Indo-China.
- (d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 tons in June, 45 tons in July and 2 tons in October.
- (e) Consists of 10,042,127 tons imported from the United States, 149,905 tons imported from Great Britain, 9,421 tons imported from Germany, 361 tons imported from Norway, 124 tons imported from Denmark, 45 tons imported from Sweden, 35 tons imported from the Netherlands, 134 tons imported from Estonia, and 286 tons imported from Newfoundland.
- (f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons imported from Great Britain, 359,994 tons imported from Germany, 33,543 tons imported from Belgium, 122,572 tons imported from French Indo-China, 16,231 tons imported from the Netherlands, and 1,120 tons imported from China.
- (g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in June, 45 tons in July and 2 tons in October.
- (h) Consists of 12,333,378 tons imported from the United States, 56,073 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Estonia.
- (j) Consists of 2,003,317 tons imported from the United States, 1,134,855 tons imported from Great Britain, 258,257 tons from Germany, 8,131 tons imported from Belgium, 154,495 tons imported from Russia, 78 tons imported from Morocco.
- (k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July and 8 tons in October.
- (l) Consists of 9,644,020 tons imported from the United States, 65,957 tons from Great Britain, 34,258 tons from Germany, and 417 tons from Japan.
- (m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 tons from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37,594 tons from the Netherlands, and 30,302 tons from French Indo-China.
- (n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.
- (o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain, and 20 tons from Norway.
- (p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany, and 43,337 tons from French Indo-China.
- (q) Consists of 2,643,588 tons from the United States, and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, Yukon and Canada, by months during 1948 (short tons):

BITUMINOUS COAL

Month	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. and Yukon	Total	Total Canada
January	480,976	38,188	519,164	8,947	131	.....	2,904	11,851	787,305
February	453,349	51,642	504,991	20,020	.....	.....	7,723	27,874	746,165
March	463,224	65,395	528,619	6,766	.....	.....	5,572	12,338	809,732
April	408,815	106,176	514,991	1,774	.....	.....	2,084	3,858	633,078
May	2,078,461	367,735	2,446,196	3,311	82	.....	1,149	4,542	2,919,062
June	2,245,018	398,222	2,643,240	2,215	.....	.....	350	2,565	3,158,125
July	2,125,920	410,910	2,536,830	2,702	.....	.....	42	3,128	3,155,613
August	2,673,104	494,668	3,167,772	6,442	.....	.....	1,160	7,602	3,831,856
September	2,409,406	437,083	2,846,489	6,368	.....	.....	764	7,132	3,470,623
October	2,070,654	370,169	2,440,823	6,418	.....	.....	1,439	7,857	2,969,773
November	1,773,713	361,834	2,135,547	5,241	104	.....	3,099	8,444	2,587,541
December	591,628	40,229	631,857	7,843	168	.....	3,018	11,029	818,200
Total	17,774,268	3,142,251	20,916,519	78,047	485	.....	29,686	108,218	25,907,103*

ANTHRACITE COAL

Month	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. and Yukon	Total	Total Canada
January	209,717	340	210,057	752	.....	.....	.....	752	312,487
February	232,525	296	232,821	938	.....	.....	.....	938	357,844
March	270,462	647	271,109	302	.....	.....	2,116	2,418	397,024
April	255,117	2,933	258,050	133	.....	.....	.....	133	402,310
May	261,276	943	262,219	100	.....	.....	.....	100	429,517
June	267,062	2,362	269,424	77	.....	.....	.....	77	426,376
July	194,900	1,580	196,480	33	.....	.....	.....	33	331,978
August	308,963	3,180	312,143	387	.....	.....	.....	387	518,323
September	327,834	7,088	334,922	147	.....	.....	.....	147	511,653
October	310,379	16,976	327,355	168	.....	.....	.....	168	513,619
November	307,773	9,192	316,965	37	.....	.....	.....	37	477,379
December	341,850	11,171	353,021	93	.....	.....	.....	93	463,948
Total	3,287,858	56,708	3,344,566	3,197	.....	.....	2,116	5,313	5,142,529†

GRAND TOTAL IMPORTATIONS

Bituminous	17,774,268	3,142,251	20,916,519	78,047	485	29,636	108,218	25,907,103
Anthracite	3,287,858	56,708	3,344,566	3,197		2,116	5,313	5,142,529
Total	21,062,126	3,198,959	24,261,085	81,244	485	31,802	113,531	31,049,632

*Includes briquettes and lignite coal.

+Consists of 4,966,755 tons imported from the United States and 175,754 tons from Great Britain.

NOTE: The above figures show the total imports and not the tonnages entered for consumption.

THE MINES BRANCH

MINERAL PRODUCTION IN ALBERTA DURING 1946 AND 1947
 Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada

	1946		1947	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	110	4.042	78	2.730
Silver, fine ounces	12	10	16	12
NON-METALLICS:				
Coal, short tons	8,826,311	33,441,930	8,070,430	36,439,095
Natural gas, M.cu.ft.	40,097,096	7,184,006	44,106,643	7,745,886
Peat moss, tons				
Petroleum, crude, barrels	7,137,921	14,347,933	6,770,477	18,078,907
Salt, tons	31,769	441,835	29,698	438,825
Sodium, sulphate, tons				
CLAY PRODUCTS AND OTHER				
STRUCTURAL MATERIALS:				
Cement, barrels	809,721	1,635,222	737,551	1,491,510
Clay products, barrels		1,808,971		1,771,250
Lime:				
Quicklime, tons	23,785	204,926	23,789	216,069
Hydrated, tons			1,944	19,940
Sand and gravel, tons	1,812,468	1,060,703	2,058,142	1,170,883
Stone, tons	13,417	55,286	13,883	57,600
Total		60,184,864		67,432,707

**PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE
 PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1948**

SUMMARY OF STATISTICS

Tonnage stripped by farmers under domestic permits	70
Number of short tons of coal produced	8,111,013
Number of short tons of briquettes made	321,574
Number of short tons of coke produced	45,718
Number of short tons of shale produced	100,937
Number of coal mines in operation during the year	195
Number of mines opened during the year	18
Number of mines re-opened during the year	49
Number of mines closed during the year	57
Number of mines abandoned during the year	17
Number of shale pits in operation during the year	7
Number of mines in operation at December 31st, 1948	171
55 mines or 28.21% of the total operating produced	0.30% of the output.
51 mines or 26.15% of the total operating produced	1.36% of the output.
17 mines or 8.72% of the total operating produced	1.55% of the output.
32 mines or 16.41% of the total operating produced	9.50% of the output.
14 mines or 7.18% of the total operating produced	13.26% of the output.
7 mines or 3.59% of the total operating produced	10.64% of the output.
8 mines or 4.10% of the total operating produced	16.86% of the output.
5 mines or 2.56% of the total operating produced	15.54% of the output.
6 mines or 3.08% of the total operating produced	30.99% of the output.
Average number of persons employed below ground	5,702
Average number of persons employed above ground	2,226
Average number of persons employed at strip mining	937
Number of separate accidents causing loss of life	13
Number of deaths caused by accidents above ground	5
Number of deaths caused by accidents below ground	8
Number of serious accidents above ground	13
Number of serious accidents below ground	78
Number of slight accidents above ground	16
Number of slight accidents below ground	77
Total purchased electric power (Kilowatt hours)	49,724,365
Number of prosecutions instituted	17
Number of Provisional Overmen's Certificates issued during 1948	74
Number of Provisional Examiners' Certificates issued during 1948	29
Number of Provisional Electricians' Certificates issued during 1948	6
Number of Provisional Foremen's Certificates issued during 1948	13
Number of Provisional Blasters' Certificates issued during 1948	4
Number of Provisional Miners' Certificates issued during 1948	179
Number of Miners' Permits issued during 1948	762
Number of Miners' Certificates issued during 1948	432
Number of Miners' Duplicate Certificates issued during 1948	51
Number of First Class Certificates issued during 1948	4
Number of Second Class Certificates issued during 1948	15
Number of Third Class Certificates issued during 1948	34
Number of Mine Surveyors' Certificates issued during 1948	7
Number of First Class Mine Electricians' Certificates issued during 1948	3
Number of Second Class Mine Electricians' Certificates issued during 1948	8
Number of Strip Mine Managers' Certificates issued during 1948	77
Number of Foremen's Certificates issued during 1948	73
Number of Blasters' Certificates issued during 1948	27
Number of First Class Certificates issued to December 31, 1948	291
Number of Second Class Certificates issued to December 31, 1948	589
Number of Third Class Certificates issued to December 31, 1948	1,720
Number of Mine Surveyors' Certificates issued to December 31, 1948	216
Number of First Class Mine Electricians' Certificates issued to Dec. 31, 1948	136
Number of Second Class Mine Electricians' Certificates issued to Dec. 31, 1948	15
Number of Miners' Certificates issued to December 31, 1948	19,064

**PARTICULARS OF WORK DONE BY FARMERS STRIPPING COAL UNDER
DOMESTIC PERMITS**

Tonnage	70
Number of days worked during the year	8
Number of men employed during the year	6
Number of shifts worked during the year	10
Total number of permits issued during the year	4
Permits issued in 1947 and used in 1948	3

The above coal was stripped for domestic use only, and not for sale.

PARTICULARS OF WORK DONE IN SHALE MINES IN THE PROVINCE DURING 1948

Output of shale (in tons) used making bricks	77,101
Output of shale (in tons) used making hollow tile	23,836
Number of shifts worked	43,243
Average number of men employed	160
Explosives used (pounds)	12,405
Number of shots fired	3,029
Total number of bricks made	28,997,749
Total number of bricks put to stock	1,645,774
Total number of bricks lifted from stock	
Bricks sold for use in: Alberta	13,863,392
Saskatchewan	6,591,786
British Columbia	3,051,471
Manitoba	3,520,326
Ontario	325,000
Total	27,351,975

Hollow tile made (tons)	23,836
Hollow tile put to stock	2,180
Hollow tile sold	21,656

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta
1901	346.649	.....
1902	510.674	.....
1903	622.939	.....
1904	782.931	.....
1905		811.228
1906		1,385.000
1907		1,834.745
1908		1,845.000
1909		2,174.329
1910		3,036.757
1911		1,694.564
1912		3,446.349
1913		4,306.346
1914		3,821.739
1915		3,434.891
1916		4,638.604
1917		4,863.414
1918		6,148.620
1919		5,022.412
1920		6,908.923
1921		5,937.196
1922		5,976.432
1923		6,866.923
1924		5,203.713
1925		5,883.394
1926		6,508.908
1927		6,936.780
1928		7,334.179
1929		7,147.250
1930		5,755.911
1931		4,564.290
1932		4,870.030
1933		4,714.784
1934		4,748.848
1935		5,462.973
1936		5,696.375
1937		5,551.682
1938		5,230.015
1939		5,518.105
1940		6,205.088
1941		6,970.064
1942		7,754.279
1943		7,677.982
1944		7,427.433
1945		7,801.248
1946		8,824.455
1947		8,074.596
1948		8,111.013

THE MINES BRANCH

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 TO 1948 (INCLUSIVE)

Year	Domestic	Domestic and Bituminous	Sub-bituminous	Bituminous	Anthracite	Coal used in Coke production	Briquettes	Coke
1901	.....	331,907	.....	.....	14,742	.....	.....	.....
1902	.....	494,087	.....	.....	16,587	.....	.....	.....
1903	.....	617,754	.....	.....	5,185	.....	.....	.....
1904	.....	759,568	.....	.....	23,363	.....	.....	.....
1905	.....	972,686	.....	.....	43,653	71,292	.....	46,640
1906	602,780	.....	.....	546,623	235,597	103,930	.....	69,844
1907	639,335	.....	.....	939,295	256,115	112,887	49,585	73,782
1908	584,334	.....	.....	1,001,571	249,095	128,397	36,261	75,657
1909	763,673	.....	.....	1,197,399	213,257	148,104	89,785	87,812
1910	878,011	.....	.....	1,896,961	261,785	196,349	108,996	121,578
1911	964,700	.....	.....	649,745	80,119	61,591	48,200	35,984
1912	1,341,389	.....	.....	1,926,371	178,589	170,818	90,000	105,684
1913	1,763,225	.....	.....	2,374,401	168,720	104,012	130,861	65,167
1914	1,697,401	.....	.....	1,953,367	170,971	44,249	109,082	29,058
1915	1,682,922	.....	.....	1,636,237	125,732	38,878	83,180	23,826
1916	2,172,801	.....	.....	2,935,259	140,544	67,105	107,959	41,950
1917	2,537,829	.....	.....	2,906,968	118,717	51,905	93,818	31,630
1918	3,035,061	.....	.....	2,982,334	131,225	109,470	109,470	32,858
1919	3,611,009	.....	.....	2,925,787	85,616	.....	70,033	.....
1920	3,359,309	.....	.....	3,417,021	180,594	.....	101,683	.....
1921	2,943,141	.....	.....	2,897,380	96,674	.....	62,466	.....
1922	3,086,669	.....	.....	2,214,273	40,417	.....	33,663	.....
1923	3,161,741	.....	635,073	3,245,313	107	.....	39,638	.....
1924	3,096,660	.....	452,849	1,521,238	.....	.....	791	.....
1925	3,156,359	.....	585,765	2,145,200	.....	.....	11,381	.....
1926	3,160,029	.....	581,835	2,856,508	.....	287	20,649	173
1927	3,357,171	.....	595,190	2,964,419	.....	.....	24,768	.....
1928	3,378,200	.....	740,498	3,215,481	.....	.....	23,167	.....
1929	3,385,749	.....	668,108	3,093,393	.....	.....	24,111	.....
1930	2,874,090	.....	603,331	2,278,490	.....	.....	15,102	.....
1931	2,246,544	.....	471,389	1,846,357	.....	4,591	13,582	2,183
1932	2,576,831	.....	559,479	1,733,720	.....	75,275	14,935	49,279
1933	2,434,047	.....	554,141	1,726,596	.....	91,745	15,906	59,703
1934	2,295,566	.....	537,542	1,915,740	.....	98,233	18,812	63,428
1935	2,647,912	.....	566,436	2,248,625	.....	97,353	21,015	65,349
1936	2,841,231	.....	586,486	2,299,658	.....	99,537	27,044	65,967
1937	2,631,150	.....	506,529	2,414,003	.....	103,498	39,239	68,692
1938	2,453,263	.....	488,912	2,287,850	.....	105,926	48,510	68,913
1939	2,449,199	.....	512,105	2,556,801	.....	.....	66,127	70,753
1940	2,537,205	.....	598,686	3,069,197	.....	.....	.....	.....

1941	2,713,254	585,453	3,671,357	105,390	126,188	70,354
1942	3,213,113	733,547	3,807,619	107,410	197,905	71,572
1943	3,416,037	791,952	3,469,993	101,132	222,106	67,348
1944	3,146,801	729,427	3,351,205	101,633	253,592	67,821
1945	.....	3,200,485	4,600,763	64,280	250,274	43,180
1946	.....	3,434,859	5,389,596	64,878	275,646	43,206
1947	.....	3,237,220	4,837,376	81,128	282,898	52,627
1948	.....	3,190,217	4,920,796	78,795	321,574	45,718

1901 to 1905 includes output from Alberta and Saskatchewan. Previous to 1922 sub-bit uminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.

During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.

During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.

During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six and one-half months.

How the total output of BITUMINOUS COAL from the Province was disposed of by Areas during 1948:

Areas	Sold for Consumption in:										Used by Colliery R.R.	Making Briquettes	Making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies	Total Sales	Used under Colliery Boilers								
Group 1:																		
Cascade	29,137	2,581	15,397	9,843	10,029		1,502	151,498	219,987	20,127	544	78,040	27,006	881	6,186	2,000		338,399
Nordeg	353							116,456	116,809	9,483		193,226	2,104		2,204			319,418
Group 2:																		
Crowsnest	72,669	19,333	171,701	84,166	10,949	96,084	51,481	1,172,288	1,678,671	18,595	180	31,279	78,795	71,985	104,948	58,801	8,190	1,917,462
Mountain Park	13,268	30,443	138,797	88,378	41,313	104,863	28,084	593,541	1,038,687	48,522			18,258					1,105,467
Group 3:																		
Coalspur	38,111	29,501	288,916	50,959	31,183		151	278,490	717,311	45,377	609		1,271	18,956	1,318			782,206
Halcourt	625								325	29								634
Lethbridge	196,952	121,094	41,053	25,940	5,848		2,821	393,708	1,940				3,311	206	3,511			395,654
Morley	915								915									915
Pekisko	4,200								4,200									4,200
Pincher	662								662									726
Prairie Creek	400								817									853
Saunders	7,614	20,403	417	15,263	3,444				48,094	6,388				182	64	146		54,482
No Area	360								360									360
Total	365,266	223,355	657,651	274,549	102,766	200,947	84,039	2,312,273	4,220,846	150,461	1,333	302,545	78,795	124,117	125,055	72,166	10,190	4,920,796

THE MINES BRANCH

How the total output of SUB-BITUMINOUS COAL from the Province was disposed of by Areas during 1948:

Areas	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskat- chewan	British Columbia	Manitoba	Ontario	Quebec							
Group 4:													
Ardley	23,860	1,695	3,486	1,273			23,860		638	11			23,871
Big Valley	11,307	41,341	25,849	18,441	17,371		17,761				55		18,344
Brooks	32,824	8,666	8,160	2,593	45		135,826	827	172	2,614	2,152	89	135,826
Carbon	46,019	5,955					65,745		3	439			67,117
Champion	5,955						5,955						6,397
Drumheller	311,597	928,548	152,038	231,741	46,574	414	1,670,912	8,053	3,243	1,904	3,686	2,074	1,678,352
Edmonton	406,334	10,032	7,286	6,470	5,165		435,287	3,391	1,858		1,779		438,912
Gleichen	14,368						14,368		155				14,368
Milk River	1,661						1,661						1,661
Pembina	57,175	12,056	25,424	11,187	2,938		107,780	1,405	1,514	1,065	5		112,859
Taber	24,709	28,859	30,346	22,652	11,900	58	118,524		100	2,937			121,461
Wetaskiwin	1,653						1,653						1,653
Group 5:													
Camrose	49,955	23,529	11,975	7,197	9,386	42	102,084	75	47	758			102,917
Castor	73,616	12,321	6,117	6,007	218		98,279	379		7,755	15		106,445
Redcliff	5,503	5,198	133	1,277	266		12,377			83			12,460
Sheerness	29,750	24,692	42				54,484	80		2,082			56,646
Slave	180						180						180
Tofield	122,543	92,991	17,193	41,622	5,891		280,240	500	136	589	72	84	281,329
Westlock	9,092						9,092			347			9,419
Total	1,228,101	1,189,928	288,049	350,460	99,754	58	3,157,068	14,710	7,866	20,584	7,764	2,247	3,190,217

THE MINES BRANCH

How the total output of BITUMINOUS COAL was disposed of by months during 1948:

Months	Sold for Consumption in							Used under Colliery Boilers	Used by R.R.	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskat- chewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies								
January	15,840	9,859	31,469	14,215	3,777	27,250	8,566	96,644	121	11,036	3,744	6,702	3,212	6,427	1,000	236,347
February	15,330	9,083	20,792	9,048	1,360	236	671	76,495	111	4,775	1,995	8,532	4,709	4,938	1,000	158,250
March	34,038	21,112	70,681	30,449	7,865	40,231	6,108	139,732	130	21,903	6,657	21,726	10,099	2,986	1,000	422,040
April	38,022	20,348	80,479	25,083	10,288	14,475	10,494	241,596	127	25,581	7,890	5,945	13,613	12,497	10	485,353
May	28,734	14,645	48,553	21,631	9,314	14,997	4,403	244,816	132	26,628	7,338	3,359	11,271	5,325	1,385	484,686
June	28,775	17,112	31,382	21,089	9,178	16,971	5,113	250,055	111	21,622	7,198	8,608	12,503	2,055	2,105	428,830
July	23,012	9,355	32,989	13,833	8,151	15,971	15,596	229,350	60	22,072	7,598	2,331	11,354	2,924	1,730	418,432
August	30,273	16,049	61,819	23,053	10,896	21,212	13,297	227,700	118	29,584	7,415	3,133	12,310	2,924	1,760	470,338
September	36,981	15,497	62,976	23,422	13,001	23,505	5,146	189,255	111	24,382	7,179	13,224	7,341	2,739	1,180	407,025
October	38,589	15,865	73,344	23,448	11,538	21,075	5,148	189,255	108	32,504	7,638	7,495	12,836	6,930	6,524	439,975
November	43,934	51,264	62,527	25,624	9,462	22,634	4,877	230,460	101	36,743	7,589	13,079	13,616	6,524	6,524	529,208
December	45,638	21,966	54,835	33,654	7,946	2,341	4,620	216,944	103	35,665	6,583	27,981	11,886	5,560		480,310
Total	365,266	223,355	657,651	274,549	102,766	200,947	84,039	2,312,273	1,333	302,545	78,795	124,117	125,055	72,166	10,190	4,920,796
% of Total Sales	8.7	5.3	15.6	6.5	2.4	4.8	1.9	54.8								

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1948:

Months	Sold for Consumption in						Total Sales	Used under Colliery Boilers	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Quebec							
January	111,806	78,297	27,535	22,195	15,580	58	42	1,663	132	3,608	14	159	260,763
February	92,916	51,578	22,330	17,612	3,272			1,116	15	2,361	2,134	416	188,650
March	107,933	107,098	24,738	28,862	8,786			1,497	113	1,653	1,179	188	279,313
April	67,571	99,166	18,844	21,997	4,663		82	212,585	830	1,020	95	27	215,529
May	48,575	81,483	13,270	16,932	2,757			163,017	1,038	291	863		163,585
June	53,607	103,117	11,435	22,429	4,690			195,278	1,038	203	38		196,501
July	51,915	60,315	11,876	14,377	7,659			146,142	801	1,246	438		148,627
August	71,292	100,817	24,662	96,640	9,864		83	235,358	862	1,513	80		236,768
September	99,547	97,571	22,623	25,221	8,109		83	253,154	1,035	634	1,193	133	255,603
October	163,126	116,829	28,918	32,810	8,570		83	350,336	1,237	280	2,727	496	353,755
November	178,092	149,109	41,098	62,782	13,602		83	444,766	1,446	1,106	3,104	1,159	448,811
December	181,721	144,548	40,700	58,603	12,202			437,774	1,761	1,875	1,426	543	442,312
Total	1,228,101	1,189,928	288,049	350,460	99,754	58	456	3,157,068	14,710	7,866	20,584	7,764	3,190,217
% of Total Sales	38.9	37.6	9.1	11.1	3.1	.1	.1						

THE MINES BRANCH

Amount of COAL sold during the years 1915 to 1948 (inclusive) for consumption in:

Year	Alberta	British Columbia	Saskatchewan	Manitoba	Ontario	North-West Territories	Quebec	United States	To Railroads	Alaska	Total
1915	2,129,130	54,868	695,898	64,816	.....	.....	.....	25,047	.....	.....	2,969,751
1916	2,866,670	86,413	1,007,765	97,265	.....	.....	.....	61,092	.....	.....	4,119,205
1917	2,813,413	76,397	1,139,771	249,872	.....	.....	.....	93,081	.....	.....	4,372,534
1918	2,440,154	101,189	1,372,439	314,239	629	.....	.....	133,276	.....	.....	5,558,855
1919	2,691,110	95,461	1,115,329	314,290	308	.....	.....	121,212	.....	.....	4,637,710
1920	2,647,202	128,950	1,310,146	600,962	13,911	.....	30	152,610	2,516,555	.....	6,371,266
1921	1,415,861	116,089	1,294,441	495,988	9,898	.....	.....	133,823	2,023,204	.....	5,488,704
1922	1,443,942	107,920	1,371,249	520,818	21,573	.....	102	105,514	2,076,291	.....	5,647,109
1923	1,382,788	106,826	1,223,484	535,649	52,534	.....	.....	83,557	3,110,121	.....	6,514,219
1924	1,431,327	114,186	1,189,788	510,407	16,525	.....	.....	39,142	2,613,574	.....	4,914,949
1925	1,440,032	117,037	1,297,753	509,655	28,831	.....	.....	40,507	2,139,716	.....	5,573,431
1926	1,325,290	127,858	1,296,181	591,267	74,539	.....	221	48,216	2,706,440	.....	6,170,032
1927	1,508,089	187,028	1,427,904	612,542	22,680	.....	.....	45,160	2,759,765	.....	6,653,168
1928	1,409,475	262,198	1,511,141	605,125	44,265	.....	.....	52,265	3,054,239	.....	6,938,708
1929	1,446,555	236,840	1,455,213	588,647	55,647	.....	33	51,625	2,923,827	.....	6,758,075
1930	1,234,362	227,385	1,221,542	541,537	29,784	.....	32	44,291	2,120,237	.....	5,419,190
1931	1,020,694	171,610	905,574	422,761	27,036	.....	100	30,434	1,668,451	.....	4,266,660
1932	1,134,311	136,188	1,097,382	497,006	20,583	.....	133	27,366	1,619,921	.....	4,532,892
1933	1,123,357	120,911	1,052,910	449,681	39,437	31	32	18,449	1,599,061	.....	4,304,838
1934	1,087,898	127,638	986,639	391,639	55,947	.....	.....	13,739	1,687,850	.....	4,350,874
1935	1,246,959	221,758	1,120,816	435,813	64,659	.....	.....	24,712	1,960,555	.....	5,075,272
1936	1,356,690	244,928	1,238,730	450,740	65,886	.....	.....	27,397	1,969,569	.....	5,353,940
1937	1,326,054	269,023	1,085,812	437,954	62,521	82	.....	41,328	2,028,389	.....	5,251,163
1938	1,278,932	238,435	1,011,207	413,663	74,111	83	.....	32,507	1,871,852	.....	4,920,800
1939	1,241,618	239,227	1,044,367	409,046	90,206	.....	.....	33,139	2,109,684	.....	5,167,287
1940	1,311,644	237,642	1,019,035	354,857	133,587	14	.....	35,354	2,720,793	.....	5,812,926
1941	1,335,606	304,928	1,052,913	430,663	234,606	.....	.....	32,742	3,090,290	.....	6,481,748
1942	1,474,795	652,222	1,259,669	580,336	231,258	.....	.....	98,197	2,864,586	.....	7,171,063
1943	1,560,212	864,911	1,455,612	627,368	1,190	.....	.....	414,627	2,098,535	.....	7,071,753
1944	1,424,293	678,960	1,225,075	533,027	10,163	.....	.....	266,664	2,583,101	1,064	6,742,643
1945	1,567,940	868,396	1,242,001	541,882	278,814	.....	.....	162,698	2,416,803	.....	7,098,928
1946	1,608,296	982,413	1,449,002	658,733	348,137	.....	.....	137,271	2,893,207	.....	8,136,694
1947	1,671,130	899,403	1,475,006	583,414	162,898	.....	58	91,235	2,504,604	.....	7,433,989
1948	1,583,367	945,700	1,413,283	625,009	202,520	.....	.....	84,495	2,312,273	.....	7,377,914

NOTE: Previous to 1920 Railroad Coal was included in Sales in Alberta.

Included in the above totals are 49,298 tons for Ship's Bunkers in 1943, 20,296 tons in 1944, 20,394 tons in 1945, 21,770 in 1946, and 4,107 in 1947. The above also includes 37,865 tons shipped to China in 1946 and 27,731 in 1947, also 14,461 tons sent to Japan in 1947, and 200,947 tons in 1948.

ANNUAL REPORT, 1948

45

Coal produced by years from 1944 to 1948:

BITUMINOUS COAL FIELD

Area	1944	1945	1946	1947	1948
Group 1:					
Cascade	363,314	318,036	313,608	280,769	338,399
Nordegg	351,869	315,857	333,368	343,720	319,418
Group 2:					
Crownsnest	1,943,068	1,856,540	2,256,741	1,967,880	1,917,462
Mountain Park	892,954	970,303	1,109,465	954,949	1,105,467
Group 3:					
Coalspur	651,340	617,286	832,987	754,775	782,206
Halcourt	553	649	1,662	1,017	654
Lethbridge	481,896	451,538	469,618	462,322	395,654
Morley		1,603	1,238	1,738	915
Pekisko	5,864	2,739	1,885	3,389	4,200
Pincher	660	231	488	681	726
Prairie Creek	7,637	6,013		655	853
Saunders	63,926	59,926	68,146	65,342	54,482
No Area		42	390	139	360
Total	4,763,081	4,600,763	5,389,596	4,837,376	4,920,796

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	7,109	14,319	12,228	15,368	23,871
Big Valley	5,471	7,824	10,106	14,230	18,344
Brooks	88,364	220,114	130,604	134,643	135,826
Carbon	46,379	71,733	78,149	70,159	67,117
Champion	7,177	7,329	7,348	8,296	6,397
Drumheller	1,678,132	1,722,816	1,946,170	1,857,416	1,678,352
Edmonton	389,330	408,068	478,900	493,133	438,912
Gleichen	16,430	18,100	16,676	14,940	14,368
Milk River	1,629	2,323	1,084	1,605	1,661
Pembina	72,187	65,009	60,106	95,468	112,859
Taber	75,066	243,978	289,849	128,376	121,461
Wetaskiwin	1,085	1,595	1,389	1,385	1,653
Whitcourt	287	150	79	231	
Group 5:					
Camrose	65,295	84,836	90,766	83,512	102,917
Castor	40,450	85,605	71,166	72,058	106,445
High Prairie	588	85			
Pakowki	216	385	123	16	
Redcliff	10,638	10,470	8,427	8,603	12,460
Rochester	4,257	7,595	5,940	5,748	
Sheerness	49,786	60,223	56,193	54,194	56,646
Slave					180
Tofield	101,895	167,778	168,640	177,120	281,329
Westlock		150	907	719	9,419
No Area	2,581				
Total	2,664,352	3,200,485	3,434,859	3,237,220	3,190,217

THE MINES BRANCH

Total output of BITUMINOUS COAL by areas during each month:

Areas		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total	
Group 1: Cascade Nordeg	20,764	18,423	37,962	26,719	26,271	29,269	17,723	17,723	28,907	38,209	29,952	30,861	33,339	338,399	
	13,726	5,658	22,943	28,644	27,671	40,144	31,514	31,514	32,105	24,413	30,202	31,485	30,913	319,418	
Group 2: Crowsnest Mountain Park	73,670	61,702	175,645	196,780	159,641	186,501	173,612	173,612	188,478	128,069	187,117	213,086	173,161	1,917,462	
	49,230	4,336	62,719	109,922	102,707	93,060	111,239	111,239	116,568	111,640	104,472	124,835	114,739	1,105,467	
Group 3: Coalspur Halcourt Lethbridge Morley Pekisko Pincher Pincher Prairie Creek Saunders No Area	61,109	56,552	70,230	76,229	72,034	42,363	59,928	59,928	64,342	63,771	65,680	77,010	72,958	782,206	
	138	83	52	33	4	52	52	52	37	20	40	64	79	654	
	14,239	9,180	45,820	40,040	31,095	32,467	22,024	22,024	34,451	35,704	36,635	45,683	48,316	395,654	
	202	101	198	45						155	98	74	42	915	
	520	428	456	348	180	94			280	405	520	542	427	4,200	
	42	114			176					130	105	82	77	726	
	111	218	268	50								46	160	853	
	2,596	1,203	5,747	6,545	4,907	4,880	2,340	2,340	5,170	4,509	5,154	5,422	6,009	54,432	
		252											18	90	360
Total	236,347	158,250	420,040	485,355	424,686	428,830	418,432	418,432	470,338	407,025	459,975	529,208	480,310	4,920,796	

Total output of SUB-BITUMINOUS COAL by areas during each month:

Group 4:	797	2,157	8,368	19	25	238	347	182	1,417	3,689	3,669	2,948	23,871
Arldley	2,569	2,110	2,461	1,354	1,550	200	238	347	1,417	3,689	3,669	2,948	23,871
Big Valley	17,431	13,315	13,315	5,044	1,521	205	4127	13,007	12,405	23,115	22,640	16,304	18,344
Brooks	9,249	7,058	6,997	4,100	2,865	1,521	2,038	3,127	4,052	7,701	9,594	8,815	135,826
Carbon	952	850	736	236	163	198	263	379	449	1,006	600	637	6,397
Champion	66,573	33,190	156,206	154,832	130,586	165,939	101,575	169,981	163,319	160,934	176,146	190,071	1,678,352
Drumheller	43,986	23,655	25,049	10,015	11,053	19,165	26,616	27,172	36,715	64,729	70,656	80,101	438,912
Edmonton	1,990	2,353	1,348	320	173	269	382	656	1,432	1,428	1,862	1,855	14,368
Gleichen	1,200	240	93	28	14	10	32	63	180	368	395	118	1,661
Milk River	1,980	2,022	10,503	1,367	1,099	414	685	3,586	6,344	11,367	19,368	33,551	112,859
Pembina	15,041	9,678	6,280	484	380	209	288	586	1,165	15,810	42,195	24,406	121,461
Taber	19,980	218	216	85	10	10	10	43	1,224	189	326	267	1,653
Wetaskiwin	175	218	216	85	10	10	10	43	1,224	189	326	267	1,653
Group 5:	19,603	8,965	3,449	2,509	2,443	1,112	2,292	4,951	7,822	14,402	20,153	15,286	102,917
Camrose	12,009	19,360	13,770	1,885	183	436	552	5,101	7,574	12,394	18,331	14,850	106,445
Castor	1,289	970	1,011	306	559	541	609	986	1,546	1,302	1,732	1,589	12,460
Redcliff	7,353	230	74	12,744	2,108	1,506	1,123	2,968	2,652	10,792	8,440	6,656	56,646
Sheerness	Slave	40,475	48,274	27,779	19,918	11,580	4,738	7,458	3,340	7,302	21,943	47,456	281,329
Tofield	1,171	1,239	1,058	283	2	4	4	4	47	894	1,956	2,765	9,419
Westlock													
Total	260,763	188,650	279,313	215,529	163,585	196,501	148,627	236,768	255,603	353,755	448,811	442,312	3,190,217

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

[illegible]

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	27	8	16	27	8	6	4	5	48	50	56	72	43
Nordeg	27		42										353
Group 2:													
Crowsnest	2,775	3,652	2,149	1,039	623	822	643	1,333	1,508	2,173	2,111	2,207	21,035
Mountain Park	377	346	454	233	184	155	135	149	371	472	349	345	3,570
Group 3:													
Coalspur	89	137	90	80	70	68	62	66	66	52	71	91	942
Halcourt	69	23		21									113
Lethbridge	231	216	485	100	197	153	159	275	420	701	1,225	1,087	5,249
Morley	202	101	198	45					155	98	74		915
Pekisko	520	428	456	348	180	94		280	405	520	542	427	4,200
Pincher													33
Prairie Creek													37
Saunders		15	24	17	10	8	5	10	10	10	15	25	173
No Area	24										11		11
Total	4,341	4,926	3,914	1,910	1,272	1,306	1,008	2,118	2,983	4,076	4,500	4,320	36,674

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	156	401	318	127	20	60	47	77	169	323	282	528	2,508
Group 2:													
Crowsnest	222	89	368	348	304	210	132	78	240	431	494	414	3,330
Mountain Park	204	16	331	297	186	84	61	135	195	272	301	404	2,486
Group 3:													
Coalspur	975	1,015	1,675	1,771	1,536	644	1,063	1,028	1,265	1,516	1,521	1,751	15,760
Halcourt	49	43	33	12	4	35	38	23	12	33	46	59	387
Lethbridge	2,560	2,143	7,686	3,782	2,465	4,034	4,463	6,563	6,784	7,513	7,881	8,155	64,029
Pincher	24	75			124				99	72	59	44	497
Prairie Creek	60	39	38	6							48	46	237
Saunders	289	197	281	370	204	219	88	181	327	384	441	368	3,349
No Area		196									7	90	293
Total	4,539	4,214	10,730	6,713	4,843	5,286	5,892	8,085	9,091	10,544	11,080	11,859	92,876

NUT COAL

Group 1:	26	50	63	37	26	9	5	54	14	2	50	336
Cascade	481	283	1,384	1,069	705	462	750	1,104	1,228	1,718	1,879	13,133
Group 2:	44			42	41		45	44	90	44	41	436
Crowsnest												
Mountain Park												
Group 3:	91	48	150	126	162	123	131	124	130	58	61	1,286
Coalspur	946	624	3,177	2,522	2,130	2,111	1,900	3,201	3,097	3,342	3,091	28,929
Lethbridge	11	31	16	5						4	30	97
Prairie Creek	219	127	495	543	167	333	79	235	449	294	496	3,660
Saunders		56										56
No Area												
Total	1,818	1,219	5,185	4,344	3,231	3,038	2,910	4,667	4,555	5,498	5,654	47,933

PREPARED STOKER

Group 1:	127	165	540	388	112	81	81	148	183	235	465	438	2,963
Cascade													
Group 2:	62	60	255	202	66	54	43	10	75	196	148	251	1,422
Crowsnest	222		384	777	614	740	852	683	761	581	699	433	6,776
Mountain Park													
Group 3:	173	524	376	448	851	314	134	200	382	409	266	612	4,789
Coalspur	17	7	14			4	5	12	6	5	15	17	1,102
Halcourt	382	199	1,123	925	792	1,038	1,941	1,034	950	1,167	1,417	1,202	12,170
Lethbridge	8	20			25				23	33	14	9	132
Pincher													
Total	991	975	2,692	2,740	2,490	2,231	3,056	2,187	2,380	2,626	3,024	2,962	28,354

THE MINES BRANCH

NUT-SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade		27								543	1,033	823	27
Group 2:													2,399
Crowsnest													
Group 3:													
Halcourt		5				11	7						23
Lethbridge	55	40	101	57	31	27	40	44	57	53	49	75	629
Prairie Creek	2	17	6									4	29
Total	57	89	107	57	31	38	47	44	57	596	1,082	902	3,107

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	293	1,374	1,023	1,280	1,492	1,573	2,267	1,193	5,130	2,603	2,392	2,640	23,260
Group 2:													
Crowsnest	593	796	2,106	1,188	2,303	4,071	4,663	3,613	3,057	2,432	3,187	3,341	31,350
Group 3:													
Coalspur	3,185	1,716	8,226	995	3,459	1,887	3,169	403	1,255	2,306	2,418	2,611	15,334
Lethbridge	23	21	55	9,210	7,113	7,315	3,169	7,963	8,441	7,908	10,410	11,290	85,946
Saunders				185		30			32		27	59	432
Total	4,094	3,907	11,410	12,858	14,367	14,876	10,099	13,172	17,915	15,249	18,434	19,941	156,322

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Alberta:

MINE-RUN COAL

Group 4:												
Ardley	797	2,061	8,177	25	24	51	182	1,319	3,427	3,669	2,892	22,549
Big Valley	194	132	125	15	24	24	136	215	319			1,264
Brooks	1,713	1,991	1,181	105	265	224	871	1,919	6,249	3,869	3,072	21,717
Carbon	2,536	2,476	1,544	40	117	54	178	390	2,234	2,002	861	11,503
Drumheller	795	286	1,090	235	23	150	677	621	1,417	1,511	1,087	8,198
Edmonton	7,731	3,762	8,648	3,510	7,127	10,316	3,410	7,031	14,806	10,599	13,496	92,143
Gleichen	1,166	1,487	825	71	261	378	656	718	667	696	702	7,755
Milk River	120	240	93	14	10	32	63	180	368	395	118	1,661
Pembina	5	262	419			32	592	617	694	1,170	1,658	5,449
Taber	86	73	24				108	106	104	138	18	351
Wetaskiwin	123	169	172	76		10	35	106	154	246	211	1,302
Group 5:												
Camrose	201	590	258	7			53	195	905	1,021	726	4,207
Castor	2,957	3,932	2,617	61	310	251	1,145	2,409	3,567	5,791	5,169	29,102
Redcliff	204	70	152	9	541							1,096
Sheerness	1,601	200	63	826	108	206	509	637	3,863	1,219	1,188	12,203
Slave												57
Tofield	2,671	4,189	1,738	8,688	3,575	5,183	1,847	2,060	2,475	2,543	3,061	46,255
Westlock	517	779	677	2			4	47	383	627	588	3,845
Total	23,417	22,719	26,803	14,049	13,719	16,887	10,446	18,464	41,689	35,496	34,847	270,857

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Ardley	540	331	890	7	19	72	142	332	558	47	1,267	1,271	123
Big Valley	451	124	349	124	465		285	126	58	720	350	487	6,667
Brooks	2,228	905	2,268	1,373	426	366	611	1,073	1,111	1,630	2,324	2,471	2,822
Carbon	724	648	566	1,192	132	155	216	340	350	445	786	484	16,786
Champion	8,740	5,857	15,094	12,473	8,527	12,721	7,414	14,838	15,629	16,718	18,202	20,695	5,038
Drumheller	17,187	9,364	7,863	4,602	4,480	5,613	6,754	11,812	15,139	21,758	24,599	25,293	156,888
Edmonton	762	729	462	179	95	7	273	355	654	1,542	3,482	3,260	154,344
Gleichen	2,121	2,919	2,166	108	25	43	131	355	1,135	1,542	3,482	3,260	5,828
Pembina	1,792	2,069	762	313	244	134	184	258	751	1,917	2,923	1,958	17,287
Taber	21												13,305
Wetaskiwin													21
Group 5:													
Camrose	3,863	1,184	994	388	153	371	593	876	2,201	3,733	5,248	4,044	23,648
Castor	2,763	3,218	3,523	599	26	31	58	2,137	3,043	4,603	5,781	4,228	30,010
Redcliff							609	986	1,302	1,010	345	121	4,373
Sheerness	1,081			2,917	17	149	146	286	435	3,106	3,169	1,947	13,253
Slave											67	56	123
Tofield	5,895	9,787	7,999	4,599	909	258	309	601	1,697	7,064	8,453	6,648	54,219
Westlock	373	272	234	54						275	801	1,600	3,609
Total	48,541	37,347	43,157	28,405	15,076	19,990	17,632	34,020	44,063	65,687	78,698	75,428	508,044

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	115	595	215	142	26	28	34	100	95	236	210	186	1,982
Brooks	41	31	123	396	252	242	41	186	37	230	79	80	848
Carbon	478	236	496	13	15	15	256	290	472	662	696	589	5,085
Champion	85	79	65	13	15	35	35	36	49	42	79	40	553
Drumheller	2,631	759	3,518	3,292	3,449	3,354	1,863	3,221	3,712	3,561	3,484	31,878	36,722
Edmonton	2,759	1,739	1,692	997	735	2,003	3,369	3,056	3,308	7,813	7,100	10,301	45,872
Gleichen		37	17			1				29	105	135	324
Pembina	716	232	169	15	10			90	369	1,034	894	1,190	4,719
Taber	728	662	329	128	87	38	49	137	261	1,403	1,872	920	6,615
Wetaskiwin	8												9
Group 5:													
Camrose	931	774	586	201	138	97	96	301	636	1,141	1,252	959	7,112
Castor	535	1,266	720	65			3	569	860	1,085	1,665	857	7,625
Sheerness	33			214	88	41	26	91	85	478	518	342	1,916
Tofield	682	1,215	843	728	2	6		14	529	1,215	1,233	632	7,102
Westlock										105	203	247	555
Total	10,742	7,626	8,773	6,191	4,802	5,826	5,775	8,091	10,413	19,034	19,390	20,356	127,019

PREPARED STOKER

[illegible]

NUT-SLACK COAL

	7	9	10	16	215	74	1,021
Group 4:							
Ardley							1,021
Big Valley							218
Brooks							169
Carbon							97
Drumheller							20,141
Edmonton							16,889
Pembina							9,376
Group 5:							
Castor							10
Tofield							7,117
Total	1,684	6,002	8,789	3,872	2,184	1,684	55,638

SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Ardley .....	..	85	52	..	..	..	..	..	24	..	..	6	167
Big Valley .....	..	..	155	..	..	..	..	683	69	998	1,542	1,038	227
Brooks .....	..	202	544	466	47	..	395	190	549	664	965	959	6,464
Carbon	470	1,576	1,783	562	403	333	38	5,930	316	5,123	5,109	5,889	8,159
Drumheller	3,549	2,618	7,489	7,229	6,667	7,946	3,726	4,679	7,599	10,338	12,273	13,514	68,844
Edmonton	6,369	3,912	3,080	1,024	1,472	2,955	2,176	..	6,176	6	46	36	67,968
Gleichen .....	..	8	..	..	..	..	..	..	..	..	..	..	96
Pembina	932	76	33	13	..	..	..	271	2,182	3,804	3,896	4,836	16,043
Taber	32	299	56	..	..	..	..	..	46	1,105	963	..	2,501
Group 5:													
Camrose	886	307	303	1,093	1,087	124	596	125	320	632	1,394	1,375	8,242
Castor .....	..	..	..	..	..	..	..	..	..	..	9	7	88
Sheerness .....	..	..	..	..	..	..	..	..	13	155	20	..	188
Tofield	500	1,205	1,232	1,175	..	214	319	330	243	931	347	442	6,938
Westlock	223	89	108	8	..	..	..	..	..	10	71	76	585
Total	13,033	10,377	14,835	11,573	9,676	11,572	7,250	12,178	17,491	22,707	26,677	29,141	186,510

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 2:													
Crowsnest	378	813	839	481	372	477	668	784	738	501	739	894	7,684
Mountain Park	94	..	..	49	..	..	49	..	48	109	28,228	47	28,624
Group 3:													
Coalspur .....	..	83	54	..	..	..	..	..	..	..	..	..	137
Total	472	896	893	530	372	477	717	784	786	610	28,967	941	36,445

NUT-SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	77												77
Group 2: Crowsnest	48	138	49	96		96		155	92	48	45	96	863
Total	125	138	49	96		96		155	92	48	45	96	940

SLACK COAL

Group 2: Crowsnest		925			45			48					925
Mountain Park						540			48				681
Group 3: Coalspur	1,130	1,797						145			447		3,374
Lethbridge		36	443	426	266	403	97	439	532	529	457	412	1,145
Saunders	273												4,313
Total	1,403	2,758	443	471	266	943	97	632	580	529	904	412	9,438

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Saskatchewan:

MINE-RUN COAL

Group 4: Carbon	88		83										171
Drumheller	87	40	297	306	298	229	88	141	242	184	229	165	2,306
Edmonton		1,437	211							230	1,200	1,300	2,750
Pembina													1,648
Group 5: Castor	682	790	581		1		96	206		471	813	363	4,003
Redcliff	673	673	561	169	203	40				80	168	285	2,279
Sheerness	589			139				295		729	695	653	1,301
Tofield	2,359	1,898	961	1,648	601	212	861		127				11,039
Total	4,478	4,838	2,694	2,262	1,103	481	1,045	642	369	1,714	3,105	2,766	25,497

LUMP COAL

[illegible]

NUT COAL

[illegible]

THE MINES BRANCH

PREPARED STOKER

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	192	89	241	74			69	760	160	465	437	349	2,836
Carbon	219	79	90				44	46		93	41	141	753
Drumheller	2,999	1,486	7,467	7,688	5,854	6,934	4,140	7,991	8,530	7,930	7,675	8,611	77,303
Pembina	329	88								90	172	189	868
Taber	411	189	165							349	588	229	1,931
Group 5:													
Camrose	769	608						43	462	385	691	424	3,382
Castor	221	540	394										1,155
Redcliff		74								32	154	132	392
Sheerness	801			935	324	485	200	595	391	649	653	483	5,516
Tofield	643	350	263	10						600	876	1,172	3,914
Total	6,584	3,503	8,620	8,707	6,178	7,419	4,453	9,435	9,543	10,593	11,287	11,730	98,052

NUT-SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	1,988	206	142				461	312	896	537	705	841	6,088
Drumheller	1,612	1,340	3,518	4,727	4,032	4,397	2,296	3,127	2,605	3,657	4,075	4,063	39,449
Pembina	2,089	3,899	432	384									6,804
Group 5:													
Redcliff		1,072	167									200	167
Tofield	549		635										2,456
Total	6,238	6,517	4,894	5,111	4,032	4,397	2,757	3,439	3,501	4,194	4,780	5,104	54,964

SLACK COAL

[illegible]

Total amount of Bituminous Coal disposed of by areas during each month for consumption in British Columbia:

MINE-RUN COAL

[illegible]

LUMP COAL

[illegible]

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	19	...	129	...	44	15	...	86	...	57	81	84	515
Group 2: Crownsnest	278	188	859	1,133	483	324	982	1,057	683	549	721	234	7,491
Mountain Park	307	...	...	2,518	1,999	...	1,392	1,096	1,994	1,062	3,213	1,608	15,189
Group 3: Coalspur	1,534	309	2,573	2,808	2,278	493	2,394	1,771	1,569	2,078	1,723	2,124	21,654
Lethbridge	398	217	951	923	651	702	427	637	689	605	907	1,007	8,114
Saunders .....	...	...	35	...	42	...	...	...	40	...	...	35	152
Total	2,536	714	4,547	7,382	5,497	1,534	5,195	4,647	4,975	4,351	6,645	5,092	53,115

PREPARED STOKER

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	196	167	1,400	513	445	393	146	482	235	624	953	976	6,530
Group 2: Crownsnest	659	718	1,966	2,329	1,889	1,508	1,771	1,897	755	2,257	792	1,008	17,549
Mountain Park	253	...	255	1,045	288	315	798	554	350	662	799	526	5,845
Group 3: Coalspur	2,706	3,054	9,068	11,280	8,105	1,420	6,799	8,411	6,991	7,583	8,342	7,528	81,287
Lethbridge .....	...	...	43	46	150	47	169	...	133	132	263	151	1,134
Total	3,814	3,939	12,732	15,213	10,877	3,683	9,683	11,344	8,464	11,258	11,149	10,189	112,345

NUT-SLACK COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	1,886	802	...	...	...	...	...	...	...	...	...	...	2,688
Group 2: Crownsnest	537	277	8,086	1,649	906	1,117	1,463	1,558	1,705	2,073	1,784	1,765	16,920
Mountain Park .....	...	...	600	...	...	...	...	...	470	...	...	...	1,070
Group 3: Prairie Creek .....	...	...	41	38	...	...	...	...	...	...	...	...	79
Total	2,423	1,079	2,727	1,687	906	1,117	1,463	1,558	2,175	2,073	1,784	1,765	20,757

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	46	111	49					353	23		413	359	229
Brooks	469	126	163	198				63	249		270	289	2,528
Carbon	47	20	170	226	136		71	63	297		2,028	1,869	1,986
Drumheller	748	318	2,195	2,139	42	1,450	1,897	2,701	2,121		90	45	21,874
Edmonton	203						46		85				611
Pembina	307	218					37	41	87				792
Taber	506	361	231							1,032	2,702	1,579	6,411
Group 5:													
Camrose	810	384						45	43		579	571	3,324
Castor	176												269
Tofield	125	85	84	250						87	177	45	853
Total	3,437	1,623	2,892	2,813	1,918	1,450	2,051	3,203	2,915	4,499	6,105	5,871	38,777

PREPARED STOKER

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	45	93	131	91				342	74		548	264	477
Brooks	192	240	376	77				83	434		94	230	2,704
Carbon	39	5	71	138	185	45	76	64	64		2,122	1,754	1,396
Drumheller	298	127	1,618	1,942	2,222	1,740	1,129	2,423	1,764		88	174	18,379
Edmonton						42	43						434
Pembina	261	547				47	39	131	471		387	585	3,052
Taber	475	209	300							388	855	275	2,502
Group 5:													
Camrose	1,525	967	40	45				43	45				2,665
Castor		283	85										368
Tofield	234	163	80	41					60		46		624
Total	3,069	2,634	2,701	2,334	2,407	1,874	1,330	3,022	2,912	3,627	3,394	3,207	32,511

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	44	43	272	158			335		87	87	89	85	1,200
Group 2: Crownsnest	905	487	2,085	1,152	1,013	1,555	1,110	1,131	1,675	1,189	378	1,364	14,544
Mountain Park	248		127	172	45		147		2,114	401	240	255	3,749
Group 3: Coalspur	2,296	1,111	3,968	3,084	2,556	3,992	2,326	2,881	2,634	2,855	2,065	4,319	34,087
Lethbridge	523	345	2,405	2,749	2,764	2,759	1,256	1,079	1,253	1,253	2,016	2,077	20,479
Saunders	643	173	1,371	1,643	1,083	1,105	385	1,096	904	860	925	833	11,021
Total	4,659	2,159	10,228	8,958	7,461	9,411	5,559	6,187	8,667	6,645	6,213	8,933	85,080

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade						44			41	44			129
Group 2: Crownsnest	622	570	1,696	1,364	227	640	1,239	1,292	2,691	2,474	2,279	1,175	16,269
Mountain Park				128		107		45	305	257	71	877	1,790
Group 3: Coalspur	437	173	589	126	200	262	128	164	80	119	249	205	1,970
Lethbridge	257		218	612	429	648	173	378	393	383	643	601	5,279
Saunders	36			215	260	66	208	183	110	47	251	146	1,740
Total	1,352	743	2,503	2,445	1,116	1,767	1,748	2,062	3,620	3,324	3,493	3,004	27,177

PREPARED STOKER

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1: Cascade	302	129	734	730	592	474	84	373	212	641	773	826	5,870
Group 2: Crownsnest		86	393	541	144	171	238	183	494	184	376	496	3,306
Mountain Park	1,029		1,362	2,313	1,511	1,229	1,302	1,115	915	1,905	2,870	2,511	17,862
Group 3: Coalspur	1,513	2,061	1,708	1,606	78	370	406	441	835	85	801	876	10,780
Lethbridge			47	46		42				47			182
Total	2,844	2,276	4,244	5,236	2,325	2,286	2,030	2,112	2,456	2,862	4,620	4,709	38,000

THE MINES BRANCH

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	284	187	213	43			570	1,667	1,200	88	224	45	1,084
Brooks	2,694	1,058	2,322	803						1,662	2,573	1,244	15,793
Carbon	433	453	139							46	225	163	1,459
Drumheller	6,981	3,965	18,832	18,257	14,768	19,221	10,924	19,846	19,076	19,868	20,833	23,459	196,030
Edmonton	215					84	261	340	298	435	1,910	2,536	6,079
Pembina	441	954	615					53	42	272	1,203	1,533	5,117
Taber	2,075	1,511	585							2,221	6,552	3,091	16,035
Group 5:													
Camrose	128	251					46		435	1,001	1,755	785	4,401
Castor	398	1,552	881							185	230	366	3,612
Tofield	4,914	5,998	1,908	173		41		43	163	1,188	8,448	6,721	29,597
Total	18,563	15,929	25,495	19,276	14,768	19,346	11,801	21,949	21,214	27,047	44,138	39,994	279,520

NUT COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	95	94	189	85				114	121	136	197	114	189
Brooks	202	41	224	46				46		2,082	46	63	1,199
Carbon	225	82	1,777	1,531	1,739	2,086	1,321	2,460	1,940	2,694	2,694	3,595	22,778
Drumheller	958	607						40		39	46	46	82
Edmonton										327	1,537	990	1,889
Pembina													3,071
Taber	217												
Group 5:													
Camrose		128							90	215	398	179	1,010
Castor												43	43
Redcliff												209	209
Tofield	132	86							41	315	3,555	3,268	7,397
Total	1,829	1,038	2,190	1,662	1,739	2,086	1,367	2,060	2,192	3,114	9,152	9,638	38,667

PREPARED STOKER

Group 4:										Group 5:										Total																																												
Brooks	43	40	89	377	594	402	179	79	109	407	Carbon	337	86	617	556	377	594	402	87	46	45	8,023	299	68	116	792	945	1,786	Castor	49	39	39	44	923	1,082	1,412	2,198	2,587	1,788	Tofield	81	108	49	39	68	116	792	945	1,786	1,567	Total	461	282	742	645	377	594	402	1,004	942	1,275	5,521	6,898	19,143

NUT-SLACK COAL

Group 4: Brooks Drumheller	334	90	220	174	403	674	501 436	83 729	301	348	605	584 4,314
Total	334	90	220	174	403	674	937	812	301	348	605	4,898

SLACK COAL

[illegible]

THE MINES BRANCH

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Ontario:
MINE-RUN COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 2: Crownest Mountain Park	1,000		3,568	5,716					991	3,169	3,136	173	48 17,753
Total	1,000		3,568	5,716					991	3,217	3,136	173	17,801

LUMP COAL													
Group 1: Cascade			259			52			2,798	1,813	1,291	1,665	7,878
Group 2: Crownest Mountain Park	43 199		184 345	246 49	237	232	104 253	47 237	89 47	179 587	44 642	225 731	1,630 3,110
Group 3: Coalspur Lethbridge Saunders	2,056 42 42	1,189	1,537 43 173	977 286 212	1,125 950 178	2,031 542 216	1,869 316 244	2,670 173 581	2,441 446 305	2,015 450 309	1,763 500 175	1,905 482 309	21,578 4,230 2,744
Total	2,382	1,189	2,541	1,770	2,490	3,073	2,786	3,708	6,126	5,353	4,415	5,337	41,170

NUT COAL													
Group 2: Crownest Mountain Park				84				47 256	69	53	43		169 383
Group 3: Coalspur Lethbridge Saunders	172 38	85	613 88 36	772 235 71	530 308 34	550 266	484 174 32	1,183 126	945 79	1,150 76	1,096 126 74	1,196 209 127	8,776 1,618 567
Total	210	85	737	1,162	872	816	690	1,612	1,093	1,365	1,339	1,532	11,513

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Brooks	3,039	888	2,338	548			693	1,500	1,248	1,137	1,503	1,791	14,685
Drumheller	2,038	443	3,228	3,099	2,193	3,292	2,735	3,418	3,230	2,465	2,710	3,034	31,883
Edmonton	320						1,005	1,007	474	505	983	739	5,031
Pembina	1,038	205	447							300	499	216	2,725
Taber	2,436	49	839							381	1,605	1,567	6,877
Group 5:													
Camrose	2,555					46	333	408	702	1,028	1,502	1,029	7,603
Castor		85	87								46	50	218
Redcliff											89	57	139
Tofield	934	1,376	1,014	174					210	290	646	577	5,221
Total	12,380	3,046	7,953	3,821	2,193	3,338	4,764	6,331	5,909	6,106	9,583	9,003	74,427

NUT COAL

Group 4:													
Brooks	432	178	262	42			128	133	101	202	295	348	2,121
Drumheller	460	254	318	395	757		918	1,414	1,113	777	915	640	7,961
Edmonton	41							93	44	45	41		134
Pembina	1,049	57								670	1,487	809	4,072
Group 5:													
Camrose	228						47	87	347	305	279	400	1,693
Redcliff											127	90	127
Tofield									51	168	224		533
Total	2,210	178	573	360	395	757	1,093	1,727	1,656	2,167	3,368	2,287	16,771

PREPARED STOKER

Group 4:													
Brooks	100	48	127	153			62				75		565
Drumheller		44	201	201	43	304	723	784	41	136	43	130	2,408
Pembina	42									39	67	79	83
Taber	766										90		951
Group 5:													
Camrose											92	45	90
Tofield													137
Total	908	48	171	354	43	304	785	784	41	175	367	254	4,234

NUT-SLACK COAL

Group 4: Drumheller	82	89	128	126	291	972	1,022	503	122	284	393	4,012
Total	82	89	128	126	291	972	1,022	503	122	284	393	4,012

SLACK COAL

Group 4: Drumheller											265	265
Total											265	265

Total amount of Bituminous Coal disposed of by areas during each month for consumption in Japan:

Group 2: Crownsnest Mountain Park	20,456 6,794	236 11,713	28,518 8,283	6,192 8,283	997	10,295 6,676	10,123 21,089	6,735 16,770	6,556 14,519	5,976 16,678	2,341	96,084 104,863
Total	27,250	236	40,231	14,475	997	16,971	31,212	23,505	21,075	22,654	2,341	200,947

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in Quebec

Group 4: Taber	58											58
Total	58											58

Total amount of Bituminous Coal disposed of by areas during each month for consumption in United States:

MINE-RUN COAL

Group 2: Crownsnest Mountain Park	4,866					11,895	11,167	1,904				4,866 24,966
Total	4,866					11,895	11,167	1,904				29,832

LUMP COAL

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 2: Crownsnest	282	148	499	139	..	45	113	133	180	333	243	325	2,440
Group 3: Coalspur	204	203	54	53	..	..	..	99	261	239	161	311	1,585
Lethbridge .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	486	148	702	193	53	45	113	232	441	572	404	636	4,025

NUT COAL

Group 2: Crownsnest	1,288	244	3,302	3,072	1,801	2,487	1,630	442	588	3,396	3,750	3,304	25,304
Group 3: Coalspur	101	..	225	133	..	..	104	..	127	126	91	152	101
Lethbridge	43	..	..	..	..	..	..	..	..	..	..	..	1,001
Total	1,432	244	2,527	3,205	1,801	2,487	1,734	442	715	3,522	3,841	3,456	26,406

PREPARED STOKER

Group 2: Crownsnest	211	168	384	..	..	..	..	678	573	48	44	..	2,106
Group 3: Coalspur	50	..	46	..	..	..	58	..	44	..	46	..	50
Lethbridge	41	..	..	..	..	..	..	..	..	..	..	..	235
Total	302	168	430	..	..	..	58	678	617	48	90	..	2,391

NUT-SLACK COAL

Group 2: Crownsnest	338	42	1,158	5,448	1,457	2,433	1,193	778	1,078	1,006	542	528	16,001
Mountain Park .....	..	..	..	..	..	..	..	..	102	..	..	..	102
Total	338	42	1,158	5,448	1,457	2,433	1,193	778	1,180	1,006	542	528	16,103

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	1,397	1,834	1,499	1,751	1,707	1,940	1,580	1,635	1,718	1,448	1,797	1,821	20,127
Nordegg	794	684	733	646	806	801	629	810	726	812	1,010	1,032	9,483
Group 2:													
Crownsnest	1,568	1,672	2,088	1,503	1,248	1,224	1,120	1,313	1,139	1,583	1,963	2,174	18,595
Mountain Park	3,897	3,563	4,393	4,485	4,107	4,082	3,474	4,071	4,028	3,713	4,188	4,521	48,522
Group 3:													
Coalspur	3,129	2,924	4,661	4,048	3,467	3,189	3,490	3,880	3,591	3,864	4,043	5,091	45,377
Halcourt	3	5	5	..	..	2	2	2	2	2	2	3	29
Lethbridge	163	96	260	179	105	95	99	94	111	113	276	349	1,940
Saunders	388	273	656	709	580	535	340	593	528	547	522	717	6,388
Total	11,339	11,051	14,295	13,321	12,020	11,868	10,734	12,398	11,843	12,082	13,802	15,708	150,461

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Carbon	86	61	100	60	60	20	40	50	60	90	100	100	827
Drumheller	819	477	853	738	661	597	541	434	575	631	743	984	8,053
Edmonton	331	309	321	287	223	371	185	228	220	261	303	352	3,391
Pembina	230	169	123	51	44	..	..	80	105	180	200	223	1,405
Group 5:													
Canrose	15	..	..	..	..	..	10	10	10	10	10	10	75
Castor	52	50	50	30	..	..	..	35	40	40	40	42	379
Sheerness	80	..	..	..	..	..	..	..	..	..	..	..	80
Tofield	50	50	50	50	50	50	25	25	25	25	50	50	500
Total	1,663	1,116	1,497	1,216	1,038	1,038	801	862	1,035	1,237	1,446	1,761	14,710

Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	20	20	55	52	52	55	25	55	52	50	53	55	544
Group 2:													
Crownsnest	15	15	15	15	15	15	15	15	15	15	15	15	180
Group 3:													
Coalspur	86	76	60	60	65	41	20	48	44	43	33	33	609
Lethbridge .....	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	121	111	130	127	132	111	60	118	111	108	101	103	1,333

THE MINES BRANCH

Amount of Sub-Bituminous Coal Put to Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley					20	20		70	28		350	150	638
Carbon								93	38	22		19	172
Champion										3			3
Drumheller	60		95	830	82		589	729	568		225		3,243
Edmonton							657	621			480	100	1,358
Gleichen										155			155
Pembina												1,514	1,514
Taber										100			100
Group 5:													
Castor	14	15	18										47
Westlock	58										51	27	136
Total	132	15	113	830	102	20	1,246	1,513	634	280	1,106	1,875	7,866

Amount of Bituminous Coal Put to Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	50	33	33	23	10	16	10	17	30	322	102	235	881
Group 2:													
Crowsnest	1,967	3,790	8,398	11,377	9,527	11,548	10,038	10,152	5,760	10,848	11,663	9,880	104,948
Group 3:													
Coalspur	1,167	845	1,648	2,197	1,692	930	1,387	2,121	1,722	1,666	1,829	1,752	18,956
Lethbridge	18	22	20	16	5	14	19	20	21		22	19	206
Pincher	10	19			27				8				64
Total	3,212	4,709	10,099	13,613	11,271	12,508	11,454	12,310	7,541	12,836	13,616	11,886	125,055

Amount of Sub-Bituminous Coal Put to Waste by areas during each month:

Group 4:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Amount of Bituminous Coal Lifted from Stock by areas during each month:

Group 1:																					
Cascade	340	250	270	2,121	49	472	714	175	497	542	356	400	6,186								
Nordegg	260	16	135			225		879	75	25	525	64	2,204								
Group 2:																					
Crowsnest	5,250	4,416	2,152	9,811	4,890	945	7,900	5,729	1,444	6,066	5,296	4,902	58,801								
Group 3:																					
Coalspur	163	97	74	20	34	56		141	637	28	40	28	1,318								
Lethbridge	389	161	474	372	352	357	310	317	106	269	238	166	3,511								
Prairie Creek	25	14	38								69		146								
Total	6,427	4,938	2,986	12,497	5,325	2,055	8,924	7,241	2,759	6,930	6,524	5,560	72,166								

Amount of Sub-Bituminous Coal Lifted from Stock by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Big Valley	14											41	55
Carbon		1,088	1,064										2,152
Drumheller		1,031	71	95	830				80	252	759	568	3,686
Edmonton						38		80	200	244	400	817	1,779
Pembina			5										5
Group 5:													
Castor		15	39		33								15
Westlock													72
Total	14	2,134	1,179	95	863	38		80	280	496	1,159	1,426	7,764

Amount of Bituminous Coal Lifted from Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 1:													
Cascade	1,000	1,000											2,000
Group 2:													
Crowsnest				10	1,385	2,105	1,750	1,760	1,180				8,190
Total	1,000	1,000		10	1,385	2,105	1,750	1,760	1,180				10,190

Amount of Sub--Bituminous Coal Lifted from Waste by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Group 4:													
Carbon	29	416	188	27					133	30	30	543	89
Drumheller	46									299	422		2,074
Group 5:													
Westlock	84												84
Total	159	416	188	27					133	329	452	543	2,247

Output and Number of Mines Producing

Kind of Coal	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons		Total
	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	No.	Output	
Bituminous Sub-Bituminous	10	4,202	4	10,312	1	8,039	4	105,374	3	212,735	1	103,387	4	701,732	5	1,260,769	6	2,514,246	384,920,796
	45	19,781	47	99,889	16	117,500	28	665,104	11	862,512	6	759,364	4	666,067				157,319,217	
Total	55	23,983	51	110,201	17	125,539	32	770,478	14	1,075,247	7	862,751	8	1,367,799	5	1,260,769	6	2,514,246	195,811,013

THE MINES BRANCH

Number of men employed in the BITUMINOUS FIELD as at December 31, 1948:

Areas	UNDERGROUND						ABOVE GROUND							STRIPPING			GRAND TOTALS			
	Salaried Employees	Foremen	Miners	Maintenance	Trans- portation	Total Underground	Salaried Employees	Foremen	Maintenance	Trans- portation	Tipple and Shipping	Powerhouse	All other Employees	Total Above Ground	Salaried Employees	Wage Earners	Total Stripping	Total Salaried Employees	Total Wage Earners	Grand Total
Group 1:																				
Cascade	25	1	90	30	37	183	17	1	17	14	16	34	34	133	6	13	19	48	287	335
Nordeg	5	8	96	47	72	228	14	5	6	10	46	24	61	166	12	45	57	31	420	451
Group 2:																				
Crownest	106	19	818	318	343	1,604	92	5	48	58	221	147	40	605	20	245	265	218	2,256	2,474
Mountain Park	38	4	173	126	115	456	39	22	43	9	77	80	35	305	22	136	158	99	820	919
Group 3:																				
Coalspur	23	4	182	54	70	333	20	5			98	52	26	201	21	129	150	64	620	684
Halcourt			1			1													1	1
Lethbridge	7	24	342	60	110	543	33			10	66	44	32	185		2	2	40	690	730
Morley	1		1			2	1							1				1	1	2
Pekisko		2	3			5												1	5	6
Pincher		2			2	4													4	4
Prairie Creek	1		4			5					1	1		2					7	7
Saunders	6	5	67	8	13	99	6	2	3	3	14	7	2	37				1	6	7
No Area																1	1	12	124	136
Total	212	69	1,777	643	762	3,463	222	40	117	98	539	389	230	1,635	81	571	652	515	5,235	5,750

THE MINES BRANCH

Men employed above and below ground in the BITUMINOUS FIELD by areas during each month:

Areas	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Monthly Average
Group 1:													
Cascade	408	342	341	332	308	317	320	305	358	335	337	335	336
Nordeg	391	409	421	404	438	446	453	436	427	421	448	451	429
Group 2:													
Crowsnest	2,303	2,275	2,345	2,366	2,366	2,359	2,326	2,448	2,465	2,487	2,498	2,474	2,393
Mountain Park	851	282	769	811	875	884	943	956	965	967	948	919	847
Group 3:													
Coalspur	643	657	665	634	636	647	670	687	672	666	682	684	662
Halco	4	4	1	4		1	1	1		1	1	1	2
Lethbridge	668	701	682	659	633	619	555	609	596	675	713	730	633
Merley	4	3	3	3					2	2	2	2	2
Pekisko	8	8	8	8	8	8		8	8	8	8	6	7
Fincher Creek	2	6	8	14					7	4	4	4	3
Prairie Creek	6	8	8								8	7	4
Saunders	136	127	141	140	134	129	122	122	120	129	135	136	131
No Area											1	1	1
Total	5,424	4,822	5,384	5,369	5,412	5,410	5,390	5,572	5,620	5,694	5,785	5,750	5,470

Men employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

Group 4:	10	15	36	3	1	14	17	3	12	19	22	23	14
Ardley	41	45	43	40	32	32	14	20	25	37	41	42	33
Big Valley	98	113	84	87	68	69	90	86	88	89	91	91	88
Brooks	136	114	122	80	64	61	64	72	74	95	125	132	95
Carbon	23	34	24	22	19	13	13	9	10	17	19	18	19
Champion	2,240	2,227	2,391	2,274	2,257	2,137	2,268	2,189	2,224	2,291	2,291	2,313	2,254
Drumheller	757	2,219	2,099	1,971	1,884	2,833	3,855	418	476	700	753	779	446
Edmonton	39	95	70	29	20	13	29	16	36	48	54	52	42
Gleichen	4	4	4	3	3	2	2	2	4	5	6	4	4
Milk River	109	97	76	23	21	22	13	36	41	74	91	111	59
Pembina	5	63	54	11	11	11	11	11	11	96	120	96	45
Taber	4	5	2	2			1	2	2	3	5	5	2
Wetaskiwin													
Group 5:													
Camrose	108	55	31	29	21	49	50	76	71	92	102	108	66
Castor	128	168	142	60	10	20	18	53	67	90	115	171	87
Redcliff	18	18	20	14	13	13	13	17	16	29	31	32	19
Sheerness	31	7	4	48	28	17	13	16	44	40	42	33	27
Slave	1									2	2	2	2
Tofteld	109	125	114	82	60	52	56	49	56	96	109	110	84
Westlock	16	13	13	6	2			2	3	14	15	24	9
Total	3,924	3,417	3,439	3,010	2,814	2,782	3,046	3,079	3,277	3,773	4,034	4,146	3,395
Bituminous	5,424	4,822	5,384	5,369	5,412	5,410	5,390	5,572	5,620	5,694	5,785	5,750	5,470
Sub-Bituminous	3,924	3,417	3,439	3,010	2,814	2,782	3,046	3,079	3,277	3,773	4,034	4,146	3,395
Total	9,348	8,239	8,823	8,379	8,226	8,192	8,436	8,651	8,897	9,467	9,819	9,896	8,865

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1906	1,385,000	2,800	494	2,000	692
1907	1,834,745	3,600	509	2,700	679
1908	1,845,000	3,780	488	2,681	686
1909	2,174,329	5,207	417	3,893	566
1910	3,036,757	5,818	504	4,090	742
1911	1,694,564	6,689	253	4,517	375
1912	3,446,349	6,661	517	4,861	708
1913	4,306,346	8,068	533	5,837	737
1914	3,821,739	8,170	467	6,052	631
1915	3,434,891	6,445	532	4,493	764
1916	4,648,604	7,570	614	5,536	839
1917	4,863,414	8,310	595	6,047	804
1918	6,148,620	8,818	697	6,141	1,001
1919	5,022,412	7,573	663	5,150	958
1920	6,908,923	9,688	712	6,551	1,055
1921	5,937,195	10,018	592	7,203	824
1922	5,976,432	8,757	683	6,154	971
1923	6,866,923	9,927	687	7,249	893
1924	5,202,713	7,317	711	5,299	982
1925	5,883,394	8,774	670	6,498	834
1926	6,508,908	8,763	743	6,569	991
1927	6,936,780	9,016	768	6,681	970
1928	7,334,179	9,496	772	6,625	1,107
1929	7,147,250	9,572	747	7,115	1,004
1930	5,755,911	8,889	648	6,607	871
1931	4,563,309	8,070	577	5,969	701
1932	4,867,984	7,837	621	5,772	844
1933	4,714,784	8,042	586	5,937	794
1934	4,748,848	7,863	604	5,809	744
1935	5,462,973	7,800	700	5,644	969
1936	5,696,375	8,110	702	5,940	959
1937	5,551,682	7,836	708	5,806	956
1938	5,230,025	7,411	706	5,427	965
1939	5,518,105	7,456	740	5,517	1,000
1940	6,205,088	7,416	836	5,526	1,122
1941	6,970,064	7,714	903	5,652	1,233
1942	7,754,279	8,040	964	5,865	1,322
1943	7,677,982	8,636	889	6,197	1,160*
1944	7,427,433	8,375	887	6,867	1,135*
1945	7,801,248	8,309	939	5,732	1,298*
1946	8,824,455	8,583	1,028	6,897	1,187*
1947	8,074,596	8,772	920	6,090	1,017*
1948	8,111,013	8,865	915	5,702	946*

*See Note over page.

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under- ground	Tons of coal mined per man employed under- ground
1910	878,011	2,307	380	1,676	524
1911	964,700	3,548	271	2,488	391
1912	1,341,389	2,980	450	2,283	587
1913	1,763,225	4,017	438	2,929	601
1914	1,697,401	4,219	402	3,190	532
1915	1,682,922	3,181	529	2,210	761
1916	2,172,801	4,132	525	3,137	692
1917	2,537,829	4,701	539	3,489	727
1918	3,035,061	4,896	619	3,420	887
1919	2,611,009	4,226	617	2,953	884
1920	3,359,308	5,173	647	3,723	902
1921	2,943,141	5,601	525	4,256	691
1922	3,086,669	4,981	620	3,752	823
1923	3,161,741	4,969	636	3,765	812
1924	3,096,660	4,543	681	3,447	898
1925	3,156,359	4,874	647	3,750	808
1926	3,160,029	4,798	658	3,713	816
1927	3,357,171	4,663	720	3,603	891
1928	3,378,200	4,810	702	3,700	873
1929	3,385,749	4,944	685	3,813	880
1930	2,874,090	4,822	596	3,756	765
1931	2,245,563	4,400	510	3,419	628
1932	2,574,785	4,548	566	3,539	728
1933	2,434,047	4,480	543	3,487	698
1934	2,295,566	4,289	535	3,370	644
1935—Stp. pit	130,084	96	1,355		
B. Ground	2,517,828	3,927	658	3,059	823
1936—Stp. pit	80,111	107	749		
B. Ground	2,761,120	4,112	671	3,243	851
1937—Stp. pit	80,116	79	1,014		
B. Ground	2,551,034	3,148	810	3,162	832
1938—Stp. pit	72,829	74	945		
B. Ground	2,380,434	3,573	667	2,846	801*
1939—Stp. pit	76,394	73	1,048		
B. Ground	2,372,805	3,636	653	2,900	818*
1940—Stp. pit	74,021	71	1,042		
B. Ground	2,463,184	3,556	692	2,844	866*
1941—Stp. pit	88,142	63	1,399		
B. Ground	2,625,112	3,427	766	2,745	856*
1942—Stp. pit	119,615	67	1,785		
B. Ground	3,093,496	3,485	888	2,777	1,114*
1943—Stp. pit	137,307	78	1,760		
B. Ground	3,278,730	4,016	816	3,133	1,046*
1944—Stp. pit	366,862	263	1,395		
B. Ground	2,779,939	3,565	882	2,826	984*

*See note over page.

NOTE: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and "Sub-Bituminous".

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed under-ground
1922—Stp. pit	367,514	217	1,692		
B. Ground	179,550	403	445	277	648
1923—Stp. pit	288,467	190	1,513		
B. Ground	174,994	354	494	260	673
1924—Stp. pit	369,724	211	1,782		
B. Ground	222,222	393	565	278	799
1925—Stp. pit	335,993	162	2,074		
B. Ground	245,842	461	533	326	754
1926—Stp. pit	258,964	147	1,761		
B. Ground	231,407	443	545	305	758
1927—Stp. pit	304,584	194	1,583		
B. Ground	290,606	478	608	321	905
1928—Stp. pit	394,682	179	2,205		
B. Ground	345,810	643	536	457	756
1929—Stp. pit	319,764	163	1,962		
B. Ground	348,344	585	595	402	866
1930—Stp. pit	304,144	157	1,937		
B. Ground	299,187	569	526	390	767
1931—Stp. pit	280,251	161	1,803		
B. Ground	191,138	486	393	336	569
1932—Stp. pit	348,266	177	1,862		
B. Ground	211,213	491	430	341	619
1933—Stp. pit	309,365	170	1,820		
B. Ground	244,776	516	474	370	661
1934—Stp. pit	302,054	158	1,912		
B. Ground	235,488	482	489	326	722
1935—Stp. pit	287,970	180	1,600		
B. Ground	278,466	501	830	337	826
1936—Stp. pit	263,899	175	1,508		
B. Ground	302,587	532	569	360	841
1937—Stp. pit	229,747	149	1,542		
B. Ground	276,782	504	549	348	795
1938—Stp. pit	227,317	148	1,536		
B. Ground	261,593	633	772	327	800*
1939—Stp. pit	246,459	142	1,735		
B. Ground	265,646	494	538	320	830*
1940—Stp. pit	318,425	241	1,321		
B. Ground	280,261	393	713	328	854*
1941—Stp. pit	320,801	272	1,179		
B. Ground	264,652	284	689	248	1,069*
1942—Stp. pit	332,748	191	1,742		
B. Ground	400,799	521	769	342	1,172*
1943—Stp. pit	351,890	360	967		
B. Ground	440,062	442	996	399	1,102*
1944—Stp. pit	280,420	161	1,742		
B. Ground	449,007	589	973	386	1,163*
1945—Stp. pit	833,129	330	2,525		
B. Ground	2,367,356	2,915	812	2,379	991*
1946—Stp. pit	831,505	316	2,631		
B. Ground	2,603,354	3,066	849	2,513	1,036
1947—Stp. pit	709,704	339	2,094		
B. Ground	2,527,516	3,183	794	2,859	884
1948—Stp. pit	1,007,042	385	2,616		
B. Ground	2,183,175	3,010	725	2,444	893

*See Note over page.

PER CAPITA PRODUCTION OF MINES IN THE BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,258	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,686	820	2,597	1,109
1919	2,325,787	3,118	745	2,100	1,108
1920	3,410,021	4,228	809	2,711	1,202
1921	2,897,380	4,133	701	2,820	1,026
1922	2,214,273	3,034	729	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,003
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,092	916
1933	1,726,596	2,876	600	2,080	830
1934	1,915,740	2,934	653	2,113	907
1935	2,248,625	3,096	726	2,248	1,000
1936	2,288,658	3,184	719	2,337	979
1937	2,414,003	3,156	765	2,295	1,052
1938	2,287,840	3,131	731	2,254	1,015
1939	2,556,801	3,111	822	2,297	1,113
1940	3,069,197	3,155	972	2,354	1,303
1941	3,671,357	3,568	1,029	2,659	1,381
1942	3,807,619	3,766	1,008	2,746	1,387
1943	3,469,993	3,740	927	2,665	1,302
1944—Stp. pit	119,092	35	3,403		
B. Ground	3,432,113	3,762	935	2,655	1,293
1945—Stp. pit	491,736	209	2,364		
B. Ground	4,109,027	4,825	852	3,373	1,218
1946—Stp. pit	991,335	332	2,986		
B. Ground	4,398,261	4,869	903	3,384	1,300
1947—Stp. pit	1,170,875	405	2,891		
B. Ground	3,666,501	4,845	757	3,231	1,135
1948—Stp. pit	1,709,039	552	3,096		
B. Ground	3,211,757	4,918	653	3,258	986

PER CAPITA PRODUCTION OF MINES IN THE ANTHRACITE COAL FIELD

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	261,765	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	745
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

NOTE.—The table showing the number of men employed in the Anthracite Coal Field, includes employees at the briquetting plant. There has been no anthracite coal produced since 1923.

*Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under permit.

NOTE.—Previous to 1944 there was no coal mined in the Bituminous Field by stripping methods.

THE MINES BRANCH

PER CAPITA PRODUCTION OF MINES BY AREAS:

BITUMINOUS COAL FIELD

Areas	Strip and Underground Mining			Strip Mining			Underground Mining		
	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Gross tons of coal mined	Average No. of men employed	Tons of coal mined per man employed	Gross tons of coal mined	Average No. of men employed	Tons of coal mined per man above and below ground
Group 1:									
Cascade	338,399	336	1,007	61,497	29	212	276,902	307	902
Nordegg	319,418	429	745	102,174	52	196	217,244	377	576
Group 2:									
Crowsnest	1,917,462	2,393	801	470,779	183	2,573	1,446,683	2,210	655
Mountain Park	1,105,467	847	1,305	619,126	141	4,604	456,341	706	646
Group 3:									
Coalspur	782,206	662	1,182	424,753	143	2,970	357,453	519	689
Halcourt	654	2	327	113	1	113	541	1	541
Lethbridge	395,654	653	606	237	2	119	395,417	651	607
Morley	915	2	458				915	2	458
Pekisko	4,200	7	600				4,200	7	600
Pincher	726	3	242				726	3	242
Prairie Creek	853	4	213				853	4	213
Saunders	54,482	131	416				54,482	131	416
No Area	360	1	360	360	1	360			
Total	4,920,796	5,470	900	1,709,039	552	3,096	3,211,757	4,918	653

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30, 1948:

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 1:														
Cascade	4,647	1,390	2,767	1,341	3,729	3,562	3,257	3,571	2,709	3,324	3,147	3,640	20,256	16,828
Nordegg	2,321	1,547	1,644	874	3,622	2,954	3,931	3,235	3,932	3,249	4,982	4,176	20,432	16,035
Group 2:														
Crowsnest	8,676	10,977	8,623	12,647	16,009	29,235	16,461	30,561	15,151	27,441	16,552	31,907	81,472	142,768
Mountain Park	7,563	4,365	3,592	1,370	7,725	6,913	9,948	9,249	10,754	8,768	11,430	9,036	51,012	39,701
Group 3:														
Coalspur	6,589	2,879	6,226	1,928	7,863	6,537	6,900	8,147	7,683	6,064	7,111	3,615	42,372	29,170
Halcourt	75	18	30	16	17	17	45	7	7	15	15	15	150	73
Lethbridge	1,853	3,592	1,466	2,449	3,434	10,141	3,317	9,474	2,936	7,616	2,976	8,592	15,982	41,864
Morley	22	44	20	20	22	44	5	10	10	70	16	112	69	118
Pekisko	20	140	20	140	20	140	18	126	10	280	16	112	104	728
Pincher	32	78	44	111	48	105	36	35	774	1,784	820	1,933	168	329
Prairie Creek	40	78	44	111	48	105	36	35	774	1,784	820	1,933	168	329
Saunders	537	1,131	594	560	732	1,882	842	2,150	774	1,784	820	1,933	3,999	9,440
Total	32,343	26,193	24,726	21,576	43,204	61,530	44,760	66,565	43,949	58,596	47,034	63,026	236,016	297,486

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31, 1948:

BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for year 1948	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 1:																
Cascade	3,149	2,901	3,090	3,663	3,745	3,566	3,107	3,412	3,168	3,804	3,708	3,774	19,967	21,120	40,223	37,948
Nordeg	4,653	3,444	4,813	3,879	4,372	3,297	4,593	3,848	4,931	4,291	4,892	4,400	28,254	23,159	48,686	39,194
Group 2:																
Crownest	15,117	26,538	18,154	28,907	15,980	22,545	17,715	27,041	17,829	29,445	17,061	28,455	101,856	162,931	183,328	305,699
Mountain Park	12,326	7,739	13,334	8,677	13,294	8,436	13,562	8,604	11,691	9,197	11,258	8,668	75,465	51,321	126,477	91,022
Group 3:																
Coalspur	7,571	5,658	8,167	6,209	8,238	5,813	7,781	5,902	8,202	6,455	8,076	6,672	48,035	36,709	90,407	65,879
Halcourt		15		5				13		21		25		79	150	152
Lethbridge	2,608	5,461	3,398	8,804	3,279	8,255	3,359	8,707	3,401	10,215	3,619	10,516	19,664	51,958	35,646	93,822
Morley				44		44		40		40		30		154	69	272
Pekisko			20	140	22	154	20	120	20	140	20	100	102	654	206	1,392
Pincher						152		100		88		88		428		460
Prairie Creek										37		87		124		453
Saunders	573	947	822	1,836	722	1,661	741	1,761	783	2,038	784	2,034	4,425	10,277	8,424	19,717
No Area									2		10		12		12	
Total	45,997	52,703	51,798	62,120	49,652	53,923	50,878	59,548	50,101	65,771	49,474	64,849	297,900	358,914	533,916	656,400

THE MINES BRANCH

Total number of shifts worked above and below ground by areas during each month, for the six months ending June 30, 1948:

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total Jan. to June	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 4:														
Ardley	85	105	135	151	490	48	15	491	1	289	34	114	726	304
Big Valley	156	471	156	624	185	529	132	855	1,467	63	1,586	499	726	2,518
Brooks	3,012	1,092	1,820	689	1,886	1,224	1,988	885	380	599	259	134	10,969	4,988
Carbon	1,065	414	582	392	497	339	371	182	25	102	34	280	3,085	1,543
Champion	64	15,723	68	10,176	8,472	32,324	8,216	32,056	8,175	28,194	8,679	33,068	43,343	151,541
Drumheller	5,734	6,076	4,067	2,486	1,327	2,772	1,075	2,527	1,057	2,171	1,506	3,892	8,840	19,324
Edmonton	2,373	679	1,502	1,214	74	675	31	194	33	150	25	170	376	3,082
Gleichen	92	20	121	20	16	48	42	42	224	15	496	15	56	160
Milk River	20	20	20	20	16	48	42	42	224	15	496	15	56	160
Pembina	1,245	674	1,384	221	1,019	135	242	67	11	169	21	111	4,810	1,141
Taber	4,127	204	551	225	333	171	20	146	11	169	21	111	5,063	1,026
Wetaskiwin	95	95	193	193	69	69	32	32					299	299
Group 5:														
Camrose	1,301	957	924	87	619	1,968	487	71	369	144	335	131	4,035	1,246
Castor	1,987	1,899	921	1,965	603	1,968	59	621			52	416	3,622	7,013
Redcliff	130	312	100	260	147	273	98	136	80	128	130	208	685	1,317
Sheerness	521	21	12	88	14	24	1,334	30	338	6	332	16	2,551	185
Tofield	2,249	110	2,519	135	2,316	100	1,614	55	1,320	50	1,090	40	11,108	490
Westlock	296		251		216		109		17				889	
Total	24,457	28,852	15,363	18,836	18,266	40,699	14,949	37,515	13,560	32,061	14,579	38,814	101,174	196,777
Bituminous Sub-Bituminous	32,343	26,193	24,726	21,576	43,204	61,530	44,760	66,565	43,949	58,596	47,034	63,028	236,016	297,486
	24,457	28,852	15,363	18,836	18,266	40,699	14,949	37,515	13,560	32,061	14,579	38,814	101,174	196,777
Total	56,800	55,045	40,089	40,412	61,470	102,229	59,709	104,080	57,509	90,657	61,613	101,840	337,190	494,263

ANNUAL REPORT, 1943

95

Total number of shifts worked above and below ground by areas during each month, for the six months ending December 31, 1943.

SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July to Dec.		Total for year 1943	
	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground	Above Ground	Below Ground
Group 4:																
Ardley	41	182	29	248	175	66	254	81	394	122	371	105	1,223	374	1,949	678
Big Valley	1,371	50	1,605	248	1,919	342	2,286	647	2,310	659	2,018	631	11,509	2,709	1,418	5,227
Brooks	285	633	292	740	327	854	556	1,183	824	1,545	797	1,686	3,081	6,641	6,146	11,629
Carbon	3	100	9,034	82	8,732	34,034	8,884	210	9,533	36,139	9,976	39,422	53,799	1,086	338	2,629
Champion	7,640	24,786	9,034	36,110	8,732	34,034	8,884	33,343	9,533	36,139	9,976	39,422	53,799	204,044	97,142	355,585
Drumheller	2,043	3,837	1,433	6,066	1,697	6,873	2,678	10,086	3,359	11,109	3,738	11,367	14,949	49,338	23,788	69,282
Edmonton	62	334	22	279	85	397	72	623	66	948	48	867	333	3,688	169	6,450
Gleichen	167	17	582	22	26	104	124	168	25	123	15	43	112	481	181	641
Milk River	16	111	15	157	846	30	1,574	44	1,913	140	1,655	573	6,737	787	11,547	1,828
Pembina	10	10	24	24	21	210	1,716	160	2,742	175	1,889	180	6,399	993	11,462	2,019
Taber	298	477	1,129	526	763	613	972	751	1,283	947	335	131	4,760	3,445	8,795	4,691
Wetaskiwin	48	416	234	959	326	1,266	468	1,435	638	2,175	891	2,060	2,605	2,331	6,227	15,344
Group 5:																
Camrose	105	243	104	252	104	232	225	500	231	452	232	408	1,001	2,087	1,686	3,404
Castor	208	2	227	4	584	18	765	42	758	125	659	66	3,201	257	5,752	442
Redcliff	1,204	32	1,048	47	1,137	47	38	162	32	192	36	120	106	106	20,816	1,090
Sheerness					75		256		303		538		1,189	600	2,078	
Slave																
Tofield																
Westlock																
Total	13,491	31,180	15,821	45,516	16,891	45,447	22,689	49,709	27,039	55,196	25,530	58,061	121,461	285,109	222,635	481,886
Bituminous	45,997	52,703	51,798	62,120	49,652	53,923	50,878	59,548	50,101	65,771	49,474	64,849	297,900	358,914	533,916	656,400
Sub-Bituminous	13,491	31,180	15,821	45,516	16,891	45,447	22,689	49,709	27,039	55,196	25,530	58,061	121,461	285,109	222,635	481,886
Total	59,488	83,883	67,619	107,636	66,543	99,370	73,567	109,257	77,140	120,967	75,004	122,910	419,361	644,023	756,551	1,138,286

THE MINES BRANCH

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT

Year	Gross tons of coal mined	Total No. of 8-hour Man-shifts	Average No. of Tons of Coal Mined per 8-hour Shift
1927	6,936,780	2,196,712	3.157
1928	7,334,179	2,282,098	3.213
1929	7,147,250	2,261,064	3.161
1930	5,755,911	1,823,826	3.155
1931	4,564,290	1,396,696	3.267
1932	4,870,030	1,475,813	3.299
1933	4,714,784	1,440,985	3.271
1934	4,748,848	1,342,086	3.538
1935	5,462,973	1,614,032	3.384
1936	5,696,375	1,696,998	3.356
1937	5,551,682	1,620,003	3.426
1938	5,230,015	1,498,855	3.489
1939	5,518,105	1,549,042	3.562
1940	6,205,088	1,673,948	3.706
1941	6,970,064	1,877,968	3.711
1942	7,754,279	2,229,655	3.477
1943	7,677,982	2,200,426	3.489
1944	7,427,433	2,034,155	3.651
1945	7,801,248	1,990,452	3.919
1946	8,824,455	2,105,511	4.191
1947	8,074,596	1,998,002	4.041
1948	8,111,013	1,894,837	4.280

AMOUNT OF MINE TIMBER USED DURING THE YEAR
BITUMINOUS COAL FIELD

Areas	Timber, lineal feet	Lumber B.M. feet	Ties, lineal feet	Slabs, cords	Lagging, lineal feet
Group 1:					
Cascade	303,288	200	30,008		11,570
Nordeg	742,014				
Group 2:					
Crowsnest	3,366,570	1,749,948	60,848	31,228	9,200
Mountain Park	726,629	1,347,000	17,325	2,000	1,514
Group 3:					
Coalspur	604,788	118,924	17,412		18
Halcourt	3,200	2,500			
Lethbridge	985,281	45,434	34,479		122
Morley	7,000				
Pekisko	15,000	4,000	2,000		2,000
Pincher	150				
Prairie Creek	800	1,000			6
Saunders	219,338	8,000	62,808		207
Total	6,974,058	3,277,006	224,880	33,228	24,637

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	7,748		200	300	
Big Valley	75,000	2,209	600		
Carbon	123,935	6,000	10,216	11,494	
Champion	29,830	12,775	175	8,900	
Drumheller	7,184,590	51,340	291,466	5,532	1,798
Edmonton	1,327,481	66,530	66,065	482	450
Gleichen	70,832	10,280	2,810	5,240	
Milk River	850			1,000	
Pembina	25,190	700	1,650	300	240
Taber	58,360		4,500	15	
Wetaskiwin	60,800	3,200	12,000		
Group 5:					
Camrose	9,700			20	
Castor	319,419	27,400	13,400	970	10,900
Redcliff	3,600	2,000	2,400		
Sheerness	1,500	3,156	5,048		
Slave	600	300			
Tofield	15,500	9,100	9,000		
Total	9,314,935	194,981	419,530	34,253	13,388

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL
FIELDS DURING THE YEARS 1947 AND 1948

BITUMINOUS

	1947	1948
Portable Electric Lamps, Edison Cap Type	4.023	3.985
Wolfe Flame Type	353	373
Total	4.376	4.358

SUB-BITUMINOUS

Portable Electric Lamps, Edison Cap Type	2.015	1.971
Portable Electric Lamps, Wheat Cap Type	24	
Wolfe Flame Type	167	201
Koehler Flame Type	17	16
Total	2.223	2.188

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:

BITUMINOUS COAL FIELD

Areas	Names of Explosives					Total
	Pellets	Monobel	CXL-ITE	Cardox	Forcite	
Group 1:						
Cascade		47.450				47.450
Nordeg		339				339
Group 2:						
Crowsnest		36.230		7.166	1.200	44.596
Mountain Park		61.453				61.453
Group 3:						
Coalspur		105.190			88.100	193.290
Lethbridge	2.276	45.619	250	11.820		59.965
Morley		700				700
Pekisko		2.700				2.700
Pincher		10				10
Prairie Creek		350				350
Saunders	6.000	5.976	500			12.476
No Area		50				50
Total	8.276	206.067	750	18.986	89.300	423.379

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	2.747	80				2.827
Big Valley	1,800	5				1,805
Brooks	2,150	190				2,340
Carbon	10,175	2,230	15			12,420
Champion	2,900					2,900
Drumheller	73,686	86,221	1,150	67,450		228,507
Edmonton	3,950	43,594	50			47,594
Gleichen	4,675	365				5,040
Milk River	450					450
Pembina	811	525				1,336
Taber	5,000	500				5,500
Wetaskiwin	500	100				600
Group 5:						
Camrose		5,700	50			5,750
Castor	18,300	1,940				20,240
Redcliff	6,000					6,000
Sheerness	1,644	52	200			1,896
Slave	20					20
Tofield	30,400	3,400			5,200	39,000
Westlock	575	87				662
Total	165,783	144,989	1,465	67,450	5,200	384,887

THE MINES BRANCH

Number of tons of coal produced per pound of Explosives used for blasting coal:

BITUMINOUS COAL FIELD

Areas	Number of tons of coal mined	Number of pounds of explosive used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade	338,399	47,450	7.13
Nordegg	319,418	339	80.05
Group 2:			
Crowsnest	1,917,462	44,596	31.20
Mountain Park	1,105,467	61,453	17.96
Group 3:			
Coalspur	782,206	193,290	4.05
Halcourt	654		
Lethbridge	395,654	59,965	6.59
Morley	915	700	1.31
Pekisko	4,200	2,700	1.56
Pincher	726	10	72.60
Prairie Creek	853	350	2.44
Saunders	54,482	12,476	4.36
No Area	360	50	7.20
Total	4,920,796	423,379	11.62

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	23,871	2,827	8.44
Big Valley	18,344	1,805	10.16
Brooks	135,826	2,340	58.05
Carbon	67,117	12,420	5.40
Champion	6,397	2,900	2.21
Drumheller	1,678,352	228,507	7.34
Edmonton	438,912	47,594	9.22
Gleichen	14,368	5,040	2.85
Milk River	1,661	450	3.69
Pembina	112,859	1,336	8.45
Taber	121,461	5,500	2.21
Wetaskiwin	1,653	600	2.76
Group 5:			
Camrose	102,917	5,750	1.79
Castor	106,445	20,240	5.26
Redcliff	12,460	6,000	2.08
Sheerness	56,646	1,896	2.99
Slave	180	20	9.00
Tofield	281,329	39,000	7.21
Westlock	9,419	662	1.42
Total	3,190,217	384,887	8.28

ANNUAL REPORT, 1948

99

Estimated number of shots fired for blasting coal:

BITUMINOUS COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	67,320			67,320
Nordegg	409			409
Group 2:				
Crowsnest	65,698		7,166	72,864
Mountain Park	52,765			52,765
Group 3:				
Coalspur	76,895			76,895
Lethbridge	68,398	1,770	11,820	81,988
Morley	1,000			1,000
Pekisko	3,100			3,100
Pincher	20			20
Prairie Creek	480			480
Saunders	15,184			15,184
No Area	100			100
Total	351,369	1,770	18,986	372,125

SUB-BITUMINOUS COAL FIELD

Group 4:				
Ardley	936	2,031		2,967
Big Valley	368	1,550		1,918
Brooks	5,200	15,050		20,250
Carbon	5,630	9,663		15,293
Champion		3,350		3,350
Drumheller	195,381	55,797	67,450	318,628
Edmonton	62,992	900		63,892
Gleichen	2,600	4,250		6,850
Milk River		1,300		1,300
Pembina	2,213			2,213
Taber	5,352	3,850		9,202
Wetaskiwin	200	500		700
Group 5:				
Camrose	5,400			5,400
Castor	4,225	11,948		16,173
Redcliff		4,800		4,800
Sheerness	38	397		435
Slave	25			25
Tofield	13,500	5,062		18,562
Westlock	569			569
Total	304,629	120,448	67,450	492,527

Number of miss-fire shots recorded in blasting coal in the Province:

BITUMINOUS COAL FIELD

Group 1:			
Cascade	4		4
Group 2:			
Crowsnest	4		4
Mountain Park	2		2
Group 3:			
Coalspur	7		7
Lethbridge	1	2	3
Pekisko	4		4
Saunders	2		2
Total	24	2	26

THE MINES BRANCH

SUB-BITUMINOUS COAL FIELD

Areas	Electric Deton- ators	Electric Squibs	Cardox Heaters	Total
Group 4:				
Ardley	11	16		27
Brooks		1		1
Carbon		12		12
Champion		7		7
Drumheller	21	23	76	120
Edmonton	12			12
Gleichen	2	1		3
Taber	2			2
Group 5:				
Camrose	3			3
Castor	10	25		35
Sheerness		1		1
Tofield		59		59
Total	61	145	76	282

Quantity of Explosives used in pounds for blasting rock in Coal-mines in the Province.

BITUMINOUS COAL FIELD

Areas	Names of Explosives				Total
	Pellets	Monobel	CXL-ITE	Forcite	
Group 1:					
Cascade			2,600	8,800	11,400
Nordegg			540		540
Group 2:					
Crownsnest			9,532	86,878	96,410
Mountain Park			9,081	165,545	174,626
Group 3:					
Coalspur			1,304	14,500	15,804
Lethbridge	45	250	50		345
Pekisko		50			50
Prairie Creek		405			405
Saunders		1,200			1,200
Total	45	1,905	23,107	275,723	300,780

SUB-BITUMINOUS COAL FIELD

Group 4:					
Ardley	23	90			113
Carbon	250	65			315
Drumheller	16,000	12,874	12,482	1,525	42,881
Edmonton		260	300		560
Gleichen	25	150			175
Milk River		300			300
Pembina	180		25		205
Taber		500	1,250		1,750
Group 5:					
Castor	100		280		380
Sheerness	200		52		252
Total	16,778	14,239	14,389	1,525	46,931

Estimated number of shots fired for blasting rock in Coal-mines in the Province:
BITUMINOUS COAL FIELD

Areas	Electric Detonators	Electric Squibs	Total
Group 1:			
Cascade	7,420		7,210
Nordegg	1,064		1,064
Group 2:			
Crowsnest	13,286		13,286
Mountain Park	33,589		33,589
Group 3:			
Coalspur	2,821		2,821
Lethbridge	404	30	434
Pekisko	8		8
Prairie Creek	532		532
Saunders	1,500		1,500
Total	60,624	30	60,654

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley	22	42	64
Carbon	230		230
Drumheller	30,546	17,640	48,186
Edmonton	619		619
Gleichen	180	150	330
Milk River	400		400
Pembina	520		520
Taber	2,030		2,030
Group 5:			
Castor	325		325
Sheerness	42	200	242
Total	34,914	18,032	52,946

Number of miss-fire shots recorded in blasting rock in Coal-mines in the Province:

Ardley		1	1
Crowsnest	5		5
Drumheller	1		1
Mountain Park	10		10
Sheerness	1		1
Total	17	1	18

THE MINES BRANCH

ELECTRICITY

The rules for the installation and use of electricity in or about mines require a return to be made to the Department on or before January 15th of each year, giving size, type and any other particulars which may be required of electrical apparatus in use above and below ground. According to the returns received from the different mines, electricity was used in 87 mines in 1948. A summary of these returns regarding the horse-power of electrical apparatus in use is given below.

Areas	No. of mines using Elec- tricity	Horse-power of electrical apparatus in use		Total Horse-power	Pur- chased Power
		Above Ground	Below Ground		
Big Valley	1	28	35	63	25,000
Brooks	1	80		80	8,160
Camrose	2	134	35	169	100,860
Carbon	6	172	191	363	106,430
Cascade	2	2,273		2,273	3,702,840
Castor	5	150	26	176	
Coalspur	4	1,885	1,188	3,073	52,800
Crowsnest	6	21,434	3,653	25,087	28,004,770
Drumheller	20	4,310	8,122	12,432	7,721,913
Edmonton	16	899	1,843	2,742	1,115,862
Gleichen	1	10	35	45	14,610
Lethbridge	4	2,172	2,036	4,208	3,137,320
Mountain Park	4	3,912	940	4,852	
Nordegg	1	3,511	149	3,660	5,205,720
Pekisko	2	26	1	27	
Pembina	1		75	75	13,840
Redcliff	1	128	60	188	90,000
Saunders	2	115	108	223	268,800
Taber	4	189	35	224	3,840
Tofield	4	205	8	213	151,600
Total	87	41,633	18,540	60,173	49,724,365

COAL-CUTTING MACHINERY

Areas	No. of machines operated by:			Tons of coal mined by	
	Elec- tricity	Com- pressed air		Elec- tricity	Com- pressed air
		Picks	Mach.		
Big Valley	1		1	1,000	1,989
Camrose	2			18,000	
Carbon	6		2	37,633	3,077
Cascade		45	5		40,002
Castor	4		5	17,247	5,032
Champion			1		775
Coalspur			32		340,000
Crowsnest	5	273	4	30,000	591,621
Drumheller	107			1,638,200	
Edmonton	28		2	287,424	6,793
Gleichen	1			4,818	
Lethbridge	25		1	390,063	40
Milk River			2		1,661
Pembina	1			1,750	
Redcliff	2			12,160	
Saunders			8		54,492
Taber	1		1	8,000	1,100
Tofield	2			4,837	....
Total	184	318	64	2,434,932	1,046,582

ACCIDENTS

Summary table showing Accidents occurring in Mines from 1906 to 1948 inclusive, reportable under The Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906	1,385,000	10	11	20	138,500	126,939	60,250
1907	1,834,745	19	18	68	96,565	101,930	26,981
1908	1,845,000	11	38	13	167,727	48,552	141,923
1909	2,174,329	9	42	18	241,952	51,769	120,796
1910	3,036,757	61a	41	58	49,782	71,067	52,375
1911	1,694,564	7	32	45	242,080	52,955	37,658
1912	3,446,349	21	38	58	164,111	90,693	59,419
1913	4,306,346	28	60	83	152,789	71,772	51,883
1914	3,821,739	209b	44	50	18,286	86,857	76,434
1915	3,434,891	18	33	33	190,827	104,087	104,087
1916	4,638,604	20	51	34	232,430	91,149	136,723
1917	4,863,414	24	62	39	202,642	78,442	124,703
1918	6,148,620	22	60	77	279,483	102,477	79,860
1919	5,022,412	21	56	54	239,162	89,685	93,008
1920	6,908,923	29	53	38	238,733	130,371	181,814
1921	5,937,195	21	64	25	282,721	92,769	237,488
1922	5,976,432	35	38	35	170,755	157,274	170,755
1923	6,866,923	22	44	10	312,133	156,066	686,692
1924	5,203,713	21	42	40	247,796	123,898	130,093
1925	5,883,394	30	59	56	196,113	99,718	105,060
1926	6,508,908	39c	67	119	166,398	97,148	54,696
1927	6,936,780	26	76	115	266,799	91,273	60,320
1928	7,334,179	28	71	122	261,935	103,298	60,166
1929	7,147,250	31	69	98	230,556	103,583	72,931
1930	5,755,911	11	69	97	523,265	83,419	59,339
1931	4,563,309	16	75	73	285,207	60,844	62,511
1932	4,867,984	11	61	96	442,544	79,803	50,703
1933	4,714,784	6	60	109	785,797	78,580	43,255
1934	4,748,848	15	68	70	316,589	69,836	67,840
1935	5,462,973	35d	66	113	156,085	82,772	48,352
1936	5,696,375	11	79	101	517,852	72,106	56,400
1937	5,551,682	20	72	73	277,584	77,107	76,050
1938	5,230,025	21e	72	135	249,040	72,639	38,741
1939	5,518,105	17	57	180	324,594	96,809	30,657
1940	6,205,088	13	79	97	477,314	78,545	63,970
1941	6,970,064	48f	78	142	145,209	89,360	49,084
1942	7,754,279	17	92	148	456,134	84,285	52,393
1943	7,677,982	25g	73	152	307,119	105,178	50,513
1944	7,427,433	10	70	125	742,743	106,106	59,419
1945	7,801,248	23h	51	168	339,185	154,925	46,436
1946	8,824,455	12	76	128	735,371	116,111	68,941
1947	8,074,596	15	121	117	538,306	66,732	69,014
1948	8,111,013	13	91	93	623,924	89,132	87,215
Total	233,312,621	1,101	2,579	3,432	211,910	90,466	66,188

- a. Including thirty-one deaths caused by the Bellevue Explosion.
- b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.
- c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co., Ltd. Explosion, and two deaths caused by an explosion at the Hillcrest Collieries, Ltd., at Hillcrest.
- d. Including sixteen deaths caused by the explosion at the Lethbridge Collieries Ltd., at Coalhurst.
- e. Including five deaths caused by the explosion at Hinton Collieries, Limited, Hinton.
- f. Including four deaths caused by an explosion at North American Collieries, Ltd., Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Collieries, Ltd., Nordegg.
- g. Including four deaths caused by an explosion at the Kerralta Coal Co., Lethbridge.
- h. Including seven deaths caused by an explosion at Luscar Coals, Ltd., Luscar.

THE MINES BRANCH

ACCIDENTS DURING 1948, CLASSIFIED ACCORDING TO THE COAL FIELDS
IN WHICH THEY OCCURRED

Field	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Bituminous	4,920,796	9	52	45	546,755	94,631	109,351
Sub-Bituminous	3,190,217	4	39	48	797,554	81,800	66,463
Total	8,111,013	13	91	93	623,924	89,132	87,215

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1946, 1947
AND 1948

	1946	1947	1948
Hard Hats	4,898	5,214	5,306
Safety Shoes, pairs	2,704	3,291	3,671
Goggles, pairs	877	608	573
Knee Pads, pairs	268	299	240

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1948:

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,774	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	8,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,937,195	10,010	21	3.54	2.10	64	10.78	6.39	42	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,547	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1.00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.33	7.42	56	9.52	6.38	145	24.65	16.53
1926	6,938,908	9,018	26	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,936,780	9,018	26	3.75	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,498	28	3.82	2.96	71	9.68	7.48	122	13.63	12.85	221	30.12	23.27
1929	7,155,250	9,572	31	4.34	3.24	69	9.65	7.21	98	12.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.94	1.34	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	7,070	16	3.51	1.58	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.70	61	12.53	7.48	96	19.72	12.23	168	34.51	21.43
1933	4,714,784	8,042	6	1.27	1.75	68	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	4,748,848	7,863	13	3.14	1.91	68	12.73	8.65	70	14.54	8.90	153	32.21	19.45
1935	5,462,973	7,824	35d	6.40	4.47	66	12.08	8.65	113	20.68	14.44	214	39.17	27.35
1936	5,696,375	8,110	20	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	5,551,683	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	5,230,025	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939	5,518,105	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	234	46.03	34.06
1940	6,205,088	7,416	13	2.10	1.76	79	12.73	10.65	97	15.63	13.08	189	30.46	25.46
1941	6,970,064	7,714	48f	6.89	6.22	78	11.19	10.11	142	20.37	18.41	268	38.73	34.74
1942	7,754,279	8,040	17	2.19	2.11	92	11.86	11.44	148	19.09	18.40	257	35.14	31.95
1943	7,677,962	8,636	25g	3.26	2.87	73	9.51	8.45	152	19.80	17.60	250	32.36	23.95
1944	7,427,433	8,375	10	1.34	1.19	70	9.42	8.35	125	16.83	14.92	205	27.60	24.47
1945	7,801,248	8,309	23	2.93	2.76	51	6.53	6.13	168	21.53	20.24	242	31.02	29.12
1946	8,824,455	8,583	12	1.36	1.39	76	8.61	8.85	128	14.50	14.91	216	24.47	25.16
1947	8,074,596	8,772	15	1.86	1.71	121	14.98	13.79	117	14.49	13.33	253	31.33	28.84
1948	8,111,013	8,865	13	1.60	1.47	91	11.22	10.27	93	11.47	10.49	197	24.29	22.22

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Co., Ltd., Coleman, and two deaths caused by an explosion at the Hillcrest Collieries, Ltd., Hillcrest.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton.

f. Including 4 deaths by explosion at North American Collieries, Ltd., East Coulee, and 29 deaths by explosion at Brazeau Collieries, Ltd., Nordegg.

g. Including four deaths caused by an explosion at the Kerralta Coal Co., Lethbridge.

*Output does not include coal produced by farmers under permit

THE MINES BRANCH

Number of tons produced per accident:

BITUMINOUS COAL FIELD

Areas	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade	338,399	336		338,399	338,399	169,199
Nordeg	319,418	429	319,418	319,418	159,709	79,855
Group 2:						
Crowsnest	1,917,462	2,393	383,492	76,698	112,851	40,797
Mountain Park	1,105,467	847		276,367	92,122	69,092
Group 3:						
Coalspur	782,206	662	391,103	78,221	195,551	48,888
Halcourt	654	2				
Lethbridge	395,654	653	395,654	39,565	43,962	19,783
Morley	915	2				
Pekisko	4,200	7				
Pincher	726	3				
Prairie Creek	853	4				
Saunders	54,482	131		54,482		54,482
No Area	360	1				
Total	4,920,796	5,470	546,755	94,631	109,351	46,423

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley	23,871	14				
Big Valley	18,344	33				
Brooks	135,826	88				
Carbon	67,117	95				
Champion	6,397	19				
Drumheller	1,678,352	2,254	559,451	57,874	430,347	23,639
Edmonton	438,912	446		87,782	48,768	31,351
Gleichen	14,368	42				
Milk River	1,661	4				
Pembina	112,859	59				
Taber	121,461	45				
Wetaskiwin	1,653	2				
Group 5:						
Camrose	102,917	66		102,917		102,917
Castor	106,445	87		26,611		26,611
Redcliff	12,460	19				
Sheerness	56,646	27	56,646			56,646
Slave	180	2				
Tofield	281,329	84				
Westlock	9,419	9				
Total	3,190,217	3,395	797,554	81,800	66,463	35,057

SUMMARY

Bituminous	4,920,796	5,470	546,755	94,631	109,351	46,423
Sub-Bituminous	3,190,217	3,395	797,554	81,800	66,463	35,057
Total	8,111,013	8,865	623,924	89,132	87,215	41,173

Classification of Accidents according to output of mines which produced during the year 1948:

	Under 1,000 tons	From 1,000 to 5,000 tons	From 5,000 to 10,000 tons	From 10,000 to 50,000 tons	From 50,000 to 100,000 tons	From 100,000 to 150,000 tons	From 150,000 to 200,000 tons	From 200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal	1	4		1		2	5	2	2	13
Serious				7	13	11	20	16	20	91
Slight	1			7	28	6	20	19	12	93
Total	2	4		15	41	19	45	37	34	197

Tons of coal produced per accident:

	23,983	27,550	770,478	82,711	431,376	273,560	630,385	1,257,123	623,924
Fatal	23,983	27,550	110,068	78,432	78,432	68,390	78,798	125,712	89,132
Serious			110,068	38,402	143,792	68,390	86,356	209,521	87,215
Slight									
Total	11,992	27,550	51,365	26,226	45,408	30,396	30,475	739,484	41,173

FATAL ACCIDENTS

Steve Samoridny, aerial hoistman, 34, on March 31st, at the mine operated by the Murray Collieries Ltd., Drumheller. He was operating a hoist at the aerial hoist house, and got caught between the rope and drum, causing cranial decapitation, abdominal injuries and third degree burns on right hip, resulting in death.

George Quinlan, miner, 48, on May 10th, at the mine operated by the Hillcrest-Mohawk Collieries Ltd., Bellevue. He was crushed against working face of the new slope at No. 1 Mine, causing injuries which resulted in death.

Fred Donyluk, pitman-at-shovel, 64, on June 7th, at the mine operated by the Sterling Collieries Ltd., Sterco. He was cutting shovel into coal at the pit, and was squeezed between tie and jack, fracturing his hip, which resulted in death.

William Witwicki, miner, 23 on June 16th, at the mine operated by the McGillivray Creek Coal & Coke Co. Ltd., Coleman. He was riding mantrip on No. 5 Level Entry at 45 Chute, and car went off the track, knocking out set, causing rock to fall on him, causing fatal injuries.

Steve Ondik, machineman, 46, on August 5th, at the mine operated by the Lethbridge Collieries Ltd., Shaughnessy. He was being brought up in main cage, when he apparently fell from the cage, receiving fatal injuries.

John Omelusik, dryer man, 23, on August 16th, at the mine operated by the McGillivray Creek Coal & Coke Co. Ltd., Coleman. He was caught in tail pulley of small slack belt, and was covered with slack coal, resulting in death.

James Pasko, driver, 25, on October 19th, at the mine operated by the Foothills Collieries Ltd., Foothills. He was working in 6 Level between Rooms 22 and 23, when coal fell and struck him, causing fatal injuries.

Steve Tackacs, miner, 46, on October 29th, at the mine operated by the Midland Coal Mining Co. Ltd., Drumheller. He was working in 40 pillar, when rock fell from the roof, fracturing his back, resulting in death.

William Brohard, mine labourer, 65, on November 23rd, at the mine operated by the Sheerness Coal Co. Ltd., Sheerness. He was repairing a portable coal conveyor in the mine yard, when the frame fell and struck him on the head, causing fractured skull and lacerations, from the effects of which he died the following day.

Dan Schultz, driver, 27, on November 26th, at the mine operated by the Brazeau Collieries Ltd., Nordegg. He was pulling a trip of empty cars on 5 left level, 18 Room, 3 Seam, when first car jumped the track, jamming him between the first car and inside leg of bridge stick, causing fatal injuries.

Albert J. Tinsley, overman, 47, on December 1st, at the mine operated by the Joy Coal Mining Co. Ltd., Cambria. He was driving a tunnel for airway, when rock fell from the roof, causing fatal injuries.

Frank Zboya, brakeman, 34, on December 13th, at the mine operated by the West Canadian Collieries Ltd., Blairmore. He apparently fell beneath wheels of box-car in tipple yard, while setting brake, which resulted in death.

Frank Puchala, miner, 49, on December 14th, at the mine operated by the Hillcrest-Mohawk Collieries Ltd., Bellevue. He was coming from the face of 24 Raise, No. 5 Mine, when a piece of coal rolled down, knocking out brace, which hit him, causing injuries, the effects from which he died the following day.

In addition to the above, the following deaths occurred in and around mines, which have not been entered as mine fatalities:

Lloyd Dolanz, 16, on March 20th, at the mine operated by Strickland and Partners, Heisler. He was struck by mine car at bottom of hoisting slope, causing fatal injuries.

Karol Lisinsky, miner, 47, on May 20th, at the mine operated by the McGillivray Creek Coal & Coke Co., Ltd., Coleman. He was found dead from natural causes, near First Crosscut, 122 Angle, No. 2 Seam.

George Odorico, miner, 53, on August 3rd, at the mine operated by the Brilliant Coal Co. Ltd., Drumheller. He died of heart failure after collapsing in No. 11 H Slant.

Shoe Somogyi, miner, 44, on August 18th, at the mine operated by the Black Point Coal Co. Ltd., South Edmonton. He died in mine office, after collapsing in the mine.

Louis Clary, truck driver, 48, on August 21st, at the mine operated by the West Canadian Collieries Ltd., Bellevue. He was driving a coal truck in the mine yard, when he was struck by the C.P.R. train at the crossing, caused fractured neck, resulting in death.

Frank Gimblett, box-car loader, 53, on October 12th, at the mine operated by the Rosedale Collieries Ltd., Rosedale. He was getting dressed in mine bathhouse, when he collapsed and died.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1948:

Months	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January		1	2	3		1	2	3	6
February		1	1	2		2	1	3	5
March	1		2	3		5	7	12	15
April		4	2	6	1	9	9	18	18
May						9	8	18	24
June	1	1	1	3	1	11	11	23	26
July						5	4	9	9
August	1		1	2	1	8	8	17	19
September		1		1		8	9	17	18
October		2	1	3	2	8	6	16	19
November	1	2	1	4	1	6	5	12	16
December	1	1	5	7	2	6	7	15	22
Total	5	13	16	34	8	78	77	163	197

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND UNDER GROUND DURING THE YEAR 1948:

Cause of Accident	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Box-car handling	1	2	3	6					6
Bucking coal						1		1	1
Chute loading						2	3	5	5
Coal-cutting machinery						4	4	8	8
Coupling cars		1		1			5	5	6
Electricity		3	1	4					4
Explosives		1		1		2	3	5	6
Fall of coal					2	17	13	32	32
Fall of rock					2	17	8	27	27
Haulage	1	1	1	3	3	23	7	33	36
Loading coal			1	1			9	9	10
Loading machinery						2	2	4	4
Loading rock							1	1	1
Miscellaneous	1	2	9	12	1	5	11	17	29
Spragging cars						1	3	4	4
Strip-mining	1	3	1	5					5
Timbering						4	8	12	12
Tipple machinery	1			1					1
Total	5	13	16	34	8	78	77	163	197

THE MINES BRANCH

Accidents occurring in the Province above and below ground for the year 1948,
classified according to the areas in which they occurred:

BITUMINOUS

Area	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade						1	1	2	2
Nordegg			1	1	1	1	1	3	4
Crowsnest	2	7	3	12	3	18	14	35	47
Mountain Park			5	5		4	7	11	16
Coalspur	1	2		3	1	8	4	13	16
Lethbridge		2	2	4	1	8	7	16	20
Saunders						1		1	1
Total	3	11	11	25	6	41	34	81	106

SUB-BITUMINOUS

Drumheller	1	1	4	6	2	28	35	65	71
Edmonton		1	1	2		4	8	12	14
Camrose						1		1	1
Castor						4		4	4
Sheerness	1			1					1
Total	2	2	5	9	2	37	43	82	91

Classification of Accidents according to the Coal Fields in which they occurred:

BITUMINOUS

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Above Ground			Total	Under Ground			Total	
	Fatal	Serious	Slight		Fatal	Serious	Slight		
Rope Haulage, trip of loaded cars crushed him against face of slope							1	1	2
Rope Haulage, rope slipped from bottle jug and hit him								3	3
Rope Haulage, fell under cars		1		1			1	1	2
Rope Haulage, fell from cage in main shaft									1
Horse Haulage, struck elbow on boom								1	1
Horse Haulage, fell under mine car							1	1	1
Horse Haulage, squeezed between car and post									1
Hand Haulage, caught foot under wheel of car			1	1					1
Hand Haulage, squeezed between car and props							1	1	1
Locomotive Haulage, locomotive struck plank which hit workman							1	1	1
Fall of rock in entry									1
Fall of rock in room							3	3	4
Fall of rock in pillar							1	1	2
Fall of coal in entry							3	3	4
Fall of coal in room							1	1	2
Fall of coal in pillar							1	1	2
Strip-Mining, squeezed by power shovel	1			1					2
Strip-Mining, rock from power shovel fell on him		1		1					2
Strip-Mining, mitt caught on drill rod		2		2					2
Strip-Mining, repairing machine and pinched his fingers			1	1					1
Box-car Handling, hit by plank from chute									1
Box-car Handling, slipped under wheel of box-car									1
Box-car Handling, coal from chute hit his hand	1			1					2
Box-car Handling, fell from box-car			1	1					2
Timbering, slipped and fell									1
Timbering, timber fell on him									1
Timbering, injured his arm while packing timber								1	1
Timbering, plank fell and hit him								1	1
Timbering, rock fell on him									1
Coal-cutting Machinery, slipped while drilling holes									1
Bucking Coal, timber struck him on back									1
Tibble Machinery, caught in tail pulley of slack belt									1
Loading Machinery, caught his arm while adjusting machinery in operation	1			1					2
Loading Machinery, dropped conveyor pan on his foot									1
Explosives, premature explosion of explosives		1		1					2
Explosives, hit by flying coal									1
Explosives, inhaled powder fumes									1

THE MINES BRANCH

BITUMINOUS—Continued

Cause	Above Ground				Under Ground				Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Coupling Cars, foot squeezed under car				1			1	1	1
Coupling Cars, foot caught between bumpers							2	2	2
Coupling Cars, hand squeezed between bumpers						1		1	1
Spragging Cars, squeezed between car and prop						1		1	1
Spragging Cars, wheel passed over thumb						1		1	1
Chute Loading, hit by rock from chute						2		2	2
Chute Loading, piece of coal fell on him						1		1	1
Chute Loading, hit by flying coal									
Electricity, opening disconnect switch, electric arc burned hands and arms		2		2					2
Electricity, testing switch and arc burned hands			1	1					1
Miscellaneous, slipped and fell		1	4	5		2	4	6	11
Miscellaneous, dropping hoist down chute and hit his leg against stopping						1		1	1
Miscellaneous, bending rail and bar hit finger							1	1	1
Miscellaneous, spiking rails and hit hand with hammer							1	1	1
Miscellaneous, caught arm between car and rib						1		1	1
Miscellaneous, repairing car and door fell on toe			1	1					1
Miscellaneous, derailed mantrip displaced set, rock fell on him						1		1	1
Miscellaneous, timber rolled on his leg									
Miscellaneous, lifting derailed car and squeezed his hand			1	1			1	1	1
Miscellaneous, jack fell on his hand									
Miscellaneous, unloading timber from R.R. car and timber fell on his foot			1	1					1
Total	3	11	11	25	6	41	34	81	106

SUB-BITUMINOUS

Cause	Above Ground			Under Ground			Total Above and Under Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Total
Miscellaneous, changing truck tire, tire blew out		1		1			1
Miscellaneous, repairing conveyor, frame fell on him	1			1			1
Total	2	2	5	9	2	37	82

SUMMARY

Bituminous									
Sub-Bituminous	3	11	11	25	6	41	34	81	106
	2	2	5	9	2	37	43	82	91
Total	5	13	16	34	8	78	77	163	197

SUB-BITUMINOUS COAL FIELD

Name of Operator	Area	Above Ground			Under Ground			Total Above and Under Ground
		Fatal	Serious	Slight	Fatal	Serious	Slight	
Atlas Coal Mine	Drumheller							6
Banner Coals, Ltd.	Edmonton		1			4	2	3
Beverly Coals, Ltd.	Edmonton					1	1	2
Brilliant Coal Co. Ltd.	Drumheller			1		2	7	9
Commander Coal Co. Ltd.	Drumheller			1		5	6	11
Great West Coal Co., Ltd.	Edmonton			1		1	4	6
Hy-Grade Coal Mining Co., Ltd.	Drumheller			1		1	2	3
J. B. Starkey Coal Co. Ltd.	Edmonton					2		2
Joy Coal Mining Co. Ltd.	Drumheller					1		1
Komperdo & Partners	Castor					1		1
Maple Leaf Coal Co. Ltd.	Drumheller					1		1
Midland Coal Mining Co., Ltd.	Drumheller					3	2	5
Minute Coal Co., Ltd.	Drumheller					1		1
Monarch Coal Mining Co. Ltd.	Drumheller		1			3	1	4
Murray Collieries, Ltd.	Drumheller	1						1
Newcastle Collieries, Ltd.	Drumheller						7	7
O. V. Remillard	Castor					2	2	4
Red Deer Valley Coal Co., Ltd.	Drumheller					2	1	3
Red Flame Coal Co. Ltd.	Camrose					1		1
Rosedale Collieries, Ltd. (346)	Drumheller			1		3		4
Rosedale Collieries, Ltd. (436)	Drumheller					1		1
Saskatchewan Federated Co-Operatives, Ltd.	Drumheller					2	4	6
Sheerness Coal Co. Ltd.	Sheerness	1						1
Strickland & Partners	Castor					1	1	2
Western Gem & Jewel Collieries Ltd.	Drumheller					2		2
Total		2	2	5	9	2	37	82
								91

SUMMARY

Bituminous	3	11	11	25	6	41	34	81	106
Sub-Bituminous	2	2	5	9	2	37	43	82	91
Total	5	13	16	34	8	78	77	163	197

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1948

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Result of Proceedings	Penalty	Costs
Monarch Coal Mining Co. Ltd.	Machineman	Did misrepresent by affidavit the age of John Calder, who was employed by the Monarch Coal Mining Co., as being of the full age of seventeen years	Convicted	Fined \$5.00	\$8.90
Content Coal Mine	Owner	Did without a permit issued by the Chief Inspector for commencement of mining operations, unlawfully commence mining operations at a place at which mining operations had not been previously carried on	Convicted	Fined \$20.00	6.85
Content Coal Mine	Owner	Did without a permit issued by the Chief Inspector for commencement of mining operations, unlawfully commence mining operations at a place at which mining operations had not been previously carried on	Convicted	Fined \$20.00	3.70
Gordon Coal Mine	Owner	Did without a permit issued by the Chief Inspector for commencement of mining operations, unlawfully commence mining operations at a place at which mining operations had not been previously carried on	Convicted	Fined \$20.00	5.65
Dixie Coal Mine	Manager	Did, being the manager, fail to send or cause to be sent to the Chief Inspector on or before the fifteenth day of each month, a correct return showing the quantity of coal or other mineral wrought or mined in such mine for the preceding calendar month	Convicted	Fined \$30.00	2.50
McLeod River Hard Coal Co. (1941) Ltd.	Miner	Did fail to report a contravention of the Coal Mines Regulation Act to the manager, overman, examiner or outside foreman	Convicted	Fined \$5.00	3.00
McLeod River Hard Coal Co. (1941) Ltd.	Fireboss	Did before firing a shot, fail to see that all persons were out of reach of possible danger	Convicted	Fined \$25.00	2.50
McLeod River Hard Coal Co. (1941) Ltd.	Fireboss	Did unlawfully allow an unauthorized person to couple up shots	Convicted	Fined \$25.00	2.50
International Coal & Coke Co. Ltd.	Timber Packer	Being in a mine in a state of intoxication	Convicted	Fined \$50.00	4.50
Carbon Sunrise Coal Mine	Owner	Did fail to forward returns of production from his mine for month of September	Convicted	Fined \$10.00	4.00
Bryan Hard Coal Co.	Mine Employee	Did work at the coal face without a Miner's Certificate	Convicted	Fined \$5.00	4.40

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1948—Continued

Mine in which Contravention was Committed	Description of Defendant	Offence Charged	Proceedings Result of	Penalty	Costs
Bryan Hard Coal Co.	Pit Boss	Did act as overman without being appointed by the owner; agent or manager in writing to the Chief Inspector and the District Inspector	Convicted	Fined \$10.00	4.40
Bryan Hard Coal Co.	Mine Employee	Did fire shots without being the holder of an Examiner's Certificate	Convicted	Fined \$5.00	4.40
Bryan Hard Coal Co.	Master Mechanic	Did commit an act endangering the mine, himself or other person	Convicted	Fined \$50.00	2.40
Bryan Hard Coal Co.	Master Mechanic	Did work at the coal face without being the holder of a Miner's Certificate	Convicted	Fined \$20.00	4.40
Luscar Coals Ltd.	Driver	Did fight in a coal mine	Convicted	Fined \$20.00	4.70
Luscar Coals Ltd.	Chute Loader	Did fight in a coal mine	Convicted	Fined \$10.00	4.70

**NUMBER OF MINES OPENED, RE-OPENED, CLOSED AND ABANDONED ACCORDING
TO AREAS AND KIND OF COAL, DURING THE YEAR**

INFORMATION REGARDING INSPECTION DISTRICTS

Chief Inspector of Mines—John Crawford, Provincial Building, Edmonton, Alberta.
Telephone 22698.

Assistant Chief Inspector of Mines—J. A. Dutton, Provincial Building, Edmonton, Alberta.
Telephone 22889.

Electrical Inspector of Mines—Burton Tait, Provincial Building, Edmonton, Alberta.
Telephone 28614.

Inspection District	Area	Area Number	Character of Coal	No. of mines in operation, Dec. 31, '48	Mines opened during the year	Mines re-opened during the year	Mines closed during the year	Mines abandoned during the year	Name and Address of District and Assistant District Inspector of Mines
Edmonton-Camrose	Camrose	5	Sub-bituminous	5		1		1	J. Thomson, Provincial Bldg., Edmonton, Alta., Tel. No. 28612.
	Castor	8	Sub-bituminous	17	3	8	8		
	Edmonton	15	Sub-bituminous	26	1	2	1		
	Halcourt	18	Bituminous	2		1	2		
	Pembina	31	Sub-bituminous	8	3	4	2	2	
	Prairie Creek	33	Bituminous	1		1	1		
	Rochester	35	Sub-bituminous		1				
	Slave		Sub-bituminous	1	1				
	Tofield	42	Sub-bituminous	5		1	1		
	Westlock	45	Sub-bituminous	3					
	Wetaskiwin	47	Sub-bituminous		1			1	
	No Area		Bituminous	1		2	1		
Calgary	Carbon	6	Sub-bituminous	3		2	2		W. E. G. Hall, New Court House Building, Calgary, Alta., Tel. No. M842-84.
	Cascade	7	Bituminous	3					
	Highwood	19	Bituminous			1	1		
	Morley	23	Bituminous	1					
	Nordeg	25	Bituminous	1					
	Pekisko	30	Bituminous	1					
	Saunders	36	Bituminous	2					
Edson	Coalspur	11	Bituminous	4			1		A. Muir, Edson, Alta., Tel. No. 35.
	Mountain Park	24	Bituminous	4					
Blairmore	Crowsnest	12	Bituminous	7		1	1		J. D. B. Brown, A. L. Lister, Blairmore, Alta., Tel. No. 70.
	Pincher	32	Bituminous	1					
Drumheller	Ardley	1	Sub-bituminous	8	3	6	4	3	James Horne, Robert Shaw, Drumheller, Alta., Tel. No. 413.
	Big Valley	2	Sub-bituminous	2					
	Carbon	6	Sub-bituminous	8	1	1	1		
	Castor	8	Sub-bituminous	6		3	5	3	
	Drumheller	14	Sub-bituminous	23	2	4	9	1	
	Gleichen	17	Sub-bituminous	4		1	2	1	
	Sheerness	38	Sub-bituminous	5		5	7		
Lethbridge	Brooks	3	Sub-bituminous	1	1				E. H. Morgan, Lethbridge, Alta., Tel. No. 3325.
	Champion	9	Sub-bituminous	3					
	Lethbridge	20	Bituminous	8	1	1	2		
	Milk River	22	Sub-bituminous	1			1		
	Pakowki	28	Sub-bituminous				1		
	Redcliff	34	Sub-bituminous	1					
	Taber	41	Sub-bituminous	4		4	4		
Total				171	18	49	57	17	

THE MINES BRANCH

BOARD OF EXAMINERS

The Provincial Board of Examiners during the year 1948 consisted of the following:

As representing:

(a) The Mine Inspectorate: John Crawford, Chief Inspector of Mines.

(b) Managers: A. C. Dunn and William Wilson.

(c) Working Miners: Andrew Campbell and D. J. Holly.

Secretary, Muriel Roberts.

Examinations during the year were held as follows:

For Third Class at the following centres: Blairmore, Canmore, Cadomin, Drumheller, Edmonton, Lethbridge and Nordegg, on May 25th.

For First and Second Class at the following centres: Calgary and Edmonton, on June 1st, 2nd and 3rd.

For Mine Surveyor at the following centres: Edmonton and Calgary, on June 3rd.

For Mine Electrician at the following centres: Blairmore, Lethbridge, Edmonton, Cadomin, Drumheller, Canmore and Nordegg, on May 25th.

Fifteen candidates presented themselves for examination for First Class Certificates, of whom four were successful.

Twenty-eight candidates presented themselves for examination for Second Class Certificates, of whom thirteen were successful. Two Second Class Interchange Certificates were also granted during the year.

Forty-six candidates presented themselves for examination for Third Class Certificates, of whom thirty-one were successful.

Eleven candidates presented themselves for examination for Mine Surveyors' Certificates, of whom seven were successful.

Seventeen candidates presented themselves for examination for Mine Electricians' Certificates; seven for first class, of whom three were successful, and ten for second class, of whom seven were successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1948.

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1948

FIRST CLASS

Name	Address	Cert. No.	Date of Issue
Aschacker, Martin	Blairmore	16	13- 7-48
Crabb, Daniel J.	Lethbridge	13	13- 7-48
Douglas, Peter S. Jr.	Cadomin	14	13- 7-48
White, James B.	Nordegg	15	13- 7-48

SECOND CLASS

Anderson, William	Coleman	44	13- 7-48
Crawford, Charles	Edmonton	48	13- 7-48
Gibson, George	Blairmore	54	13- 7-48
Kenakin, Peter	Rosedale	45	13- 7-48
Lister, Alexander B.	Edmonton	49	13- 7-48
Luini, Louis	Hillcrest	51	13- 7-48
Mitchell, Thomas	Luscar	43	13- 7-48
Molnar, Vendel S.	Hillcrest	53	13- 7-48
McIntyre, Arnold J.	Mercoal	47	13- 7-48
Radford, James T.	Bellevue	52	13- 7-48
Tamborini, Bruno	Bellevue	50	13- 7-48
Worthington, Willard	Edmonton	42	13- 7-48
Zemek, Joseph	Frank	46	13- 7-48

SECOND CLASS INTERCHANGE

Baines, Arthur	Lethbridge	41	13- 7-48
Morgan, Dewi R.	Bellevue	40	11- 5-48

THIRD CLASS

Ainsley, George H.	Morley	126	13- 7-48
Anderson, William	Coleman	114	13- 7-48
Autio, Victor	Canmore	127	13- 7-48
Binder, Christopher	Ryley	129	13- 7-48
Cocchioni, Augustus	Kelowna, B.C.	411	12-11-48
Colley, David G.	Rosedale	121	13- 7-48
Coulter, Thomas	Calgary	130	13- 7-48
Dambois, Charles E.	Bellevue	124	13- 7-48
DeBarnardo, Frank J.	Drumheller	131	13- 7-48

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
DeCecco, Antonio	Coleman	119	13- 7-48
Dotto, August J.	Cadomin	132	13- 7-48
Fisher, Walter E.	Nordegg	122	13- 7-48
Ginther, Patrick J.	Saunders	133	13- 7-48
Gitzel, Edward S.	Luscar	115	13- 7-48
Gosney, John A.	Cadomin	112	13- 7-48
Grant, Ferguson	Hillcrest	113	13- 7-48
Johnson, Oscar G. F.	Wayne	134	13- 7-48
Kubicek, Fred	Rosedale	135	13- 7-48
Lee, Charles	Mountain Park	116	13- 7-48
Lidgett, James	Entwistle	125	13- 7-48
Ludwig, Peter	Rosedale	136	13- 7-48
Lyness, John H.	Delburne (duplicate)	108	8- 9-48
Mahoney, Patrick	Luscar	137	13- 7-48
Matheson, James P.	Rosedale	138	13- 7-48
Mazur, Walter J.	Mercoal	139	13- 7-48
Page, Joseph	Kindersley, Sask. (duplicate)	107	25- 2-48
Passey, Thomas R.	Rosedale	111	13- 7-48
Schon, Karl	Edmonton	140	13- 7-48
Small, Samuel	Luscar	118	13- 7-48
Smith, James H.	Beverly	128	13- 7-48
Stewart, James Jr.	Lethbridge	120	13- 7-48
Wales, Harry	St. Albert	141	13- 7-48
Wilson, Samuel G.	Cadomin	123	13- 7-48
Wukusich, John A. S.	Lethbridge	117	13- 7-48

MINE SURVEYOR

Crawford, Alexander	Edmonton	11	13- 7-48
Dunn, Robert A.	Edmonton	16	13- 7-48
Neumann, Theodore O.	Cadomin	15	13- 7-48
Panchuk, Fred	Cadomin	10	13- 7-48
Panchysyn, Edward J.	Blairmore	12	13- 7-48
Pullen, Peter F.	Alexo	14	13- 7-48
Riva, Walter J.	Canmore	13	13- 7-48

FIRST CLASS MINE ELECTRICIAN

Conlin, Lloyd R.	East Coulee	10	13- 7-48
Hilman, Arnold R.	Nordegg	9	13- 7-48
Wyrostok, Emil	Shaughnessy	8	13- 7-48

SECOND CLASS MINE ELECTRICIAN

Anderson, Raymond E.	Shaughnessy	14	13- 7-48
Higgins, Frank	Drumheller	16	13- 7-48
Hill, Lewis E.	Lethbridge	17	13- 7-48
Peebles, James W.	Lethbridge	12	13- 7-48
Sikora, Joseph J.	Coleman	15	13- 7-48
Siray, Louis	Shaughnessy	11	13- 7-48
Smith, Charles A.	Midlandvale	10	12- 2-48
Wyllie, Gordon F.	Shaughnessy	13	13- 7-48

THE MINES BRANCH

BOARD OF STRIP MINE EXAMINERS

The Board of Examiners during the year 1948 consisted of the following:
As representing:

- (a) The Mine Inspectorate: J. A. Dutton, Assistant Chief Inspector of Mines.
 - (b) Strip Mine Managers: G. A. Wiggan and W. F. Stevenson.
 - (c) Strip Mine Workers: S. Nicholson and L. Gryschuk.
- Secretary, Muriel Roberts.

There were no examinations held during the year.

The Board met twice to deal with applications for certificates without examination, which were recommended to the Chief Inspector of Mines for issuance under Section 5(d) of the Regulations Governing the Operations of Strip Mines.

LIST OF NAMES OF HOLDERS OF STRIP MINE MANAGERS', FORMEN'S AND BLASTERS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1948.

STRIP MINE MANAGER

Name	Address	Cert. No.	Date of Issue
Aschacker, Martin	Blairmore	32	18-10-48
Blackstock, William J.	Calgary	63	13-12-48
Blake, Henry	Blairmore	56	13-12-48
Bradley, Norman A.	Edmonton	21	18-10-48
Brown, William B.	Castor	37	18-10-48
Chavignaud, Louis G.	Mercoal	38	18-10-48
Collett, Karl W.	Calgary	57	13-12-48
Congdon, Milton H.	Bellevue	68	13-12-48
Cragg, William M.	Eyremore	30	18-10-48
Crawford, Hugh	East Coulee	73	13-12-48
Crawford, John	Edmonton	3	18-10-48
Dalziel, Robert	Edmonton	65	13-12-48
Davidson, John M.	Lethbridge	58	13-12-48
Douglas, Peter S. Jr.	Cadomin	16	18-10-48
Dutton, Joseph A.	Edmonton	4	18-10-48
Evans, Howell	Luscar	52	13-12-48
Foster, William	Wabamun	47	18-10-48
Fraser, Arthur A.	Coal Valley	24	18-10-48
Fraser, William B.	Coleman	20	18-10-48
Gallinger, Wilber	Tofield	49	18-10-48
Goodwin, William	Bellevue	14	18-10-48
Hall, William E. G.	Calgary	5	18-10-48
Hamilton, Duncan C.	Luscar	50	18-10-48
Harvie, John	Edmonton (Honourary)	2	18-10-48
Heeley, William G.	Calgary	6	18-10-48
Hibbert, William	Aerial	78	13-12-48
Hill, Albert B.	Blairmore	61	13-12-48
Hnatyshyn, Andrew C.	Drumheller	70	13-12-48
Hooks, Albert	Calgary	75	13-12-48
Horne, Frederick L.	Luscar	77	13-12-48
Horne, James	Drumheller	8	18-10-48
Irving, Donald F.	Dodds	27	18-10-48
Jones, Daniel	Robb	74	13-12-48
Keith, Homer P.	Edmonton	69	13-12-48
Kellock, James	Carbondale	71	13-12-48
Lister, Arthur L.	Blairmore	10	18-10-48
Logan, Thomas J.	Morinville	44	18-10-48
Mannix, Frederick C.	Calgary	54	13-12-48
Matson, Clarence M.	Nordeg	42	18-10-48
Melynyk, Nick	Cadomin	67	13-12-48
Miller, Henry	Bellevue	15	18-10-48
Morgan, Thomas E.	Blairmore	34	18-10-48
Muir, Alexander	Edson	7	18-10-48
Munn, Robert B.	Camrose	19	18-10-48
MacKinnon, Donald F.	Mountain Park	46	18-10-48
McArthur, Archibald A.	Carbon	28	18-10-48
McDonald, Leslie M.	Mountain Park	25	18-10-48
McIntyre, John J.	Coleman	60	13-12-48
Neufeld, J. P.	Grassy Lake	23	18-10-48
Neumann, Theodore O.	Calgary	35	18-10-48
Odlum, Nelson E.	Nordeg	51	18-10-48
Paepe, Henry	Morinville	43	18-10-48
Penchysyn, Edward J.	Blairmore	41	18-10-48
Ramsay, Peter M.	Calgary	66	13-12-48
Rappel, Thomas	Rosedale	31	18-10-48
Rhynass, Melville G.	Taber	13	18-10-48
Richards, M. C. R.	Rosedale	59	13-12-48
Scott, Andrew N.	Edmonton	36	18-10-48
Scott, Andrew Jr.	Luscar	55	13-12-48
Scott, Norman E.	Tofield	18	18-10-48
Shaw, Robert	Drumheller	11	18-10-48
Stein, Richard C.	Blairmore	76	13-12-48
Stevens, Leonard C.	Edmonton	40	18-10-48
Stevenson, William F.	Edmonton	39	18-10-48
Tanner, Hon. N. E.	Edmonton (Honourary)	1	18-10-48
Thomson, John	Edmonton	9	18-10-48

STRIP MINE MANAGER—Continued

Name	Address	Cert. No.	Date of Issue
Twomey, Dennis	Camrose	48	18-10-48
Vennard, Raymond R.	Cadomin	64	13-12-48
Vissac, Gustave A.	Vancouver, B.C.	17	18-10-48
Vivvurka, John	Wabamun	22	18-10-48
Walker, Raymond G.	Sterco	29	18-10-48
Welch, Cyril J.	Blairmore	62	13-12-48
Westergaard, Melvin G.	Coleman	53	13-12-48
Westgate, John G.	Eyremore	45	18-10-48
Whittaker, William C.	Calgary	72	13-12-48
Wiggan, George A.	Eyremore	33	18-10-48
Williams, Arthur E.	Bellevue	12	18-10-48
Wood, Richard L.	Sheerness	26	18-10-48

FOREMAN

Allen, William A.	Sterco	66	13-12-48
Ambrosi, Antonio	Blairmore	9	18-10-48
Anderson, Orson L.	Eyremore	14	18-10-48
Baratelli, John	Blairmore	11	18-10-48
Beardsley, Arthur J.	Picardville	37	18-10-48
Bordula, Andrew J.	Hanna	38	18-10-48
Burnstad, Sigurd	Ohaton	64	13-12-48
Chambers, Harold S.	Delia	43	18-10-48
Chiswick, James	Gadsby	1	18-10-48
Clyburn, Norman S.	Luscar	41	18-10-48
Corkish, Edward	Eyremore	13	18-10-48
Daintith, Joseph	Camrose	69	13-12-48
Davidson, Darrel W.	Three Hills	12	18-10-48
Dombroski, Titus	Thorhild	4	18-10-48
Doupe, William E.	Wembley	63	13-12-48
Droppo, William A.	Calgary	51	13-12-48
Fellows, Frank	Edmonton	15	18-10-48
Fortin, Michael	Coal Valley	67	13-12-48
Francey, John A.	Duffield	17	18-10-48
Gaetz, Christopher	Hanna	39	18-10-48
Gaetz, John	Hanna	31	18-10-48
Gordon, David L.	Warden	22	18-10-48
Harrigan, Michael A.	Cadomin	56	13-12-48
Henderson, Austin J.	Gregg River	44	18-10-48
Herrick, Wallace E.	Eyremore	3	18-10-48
Hughes, William A.	Luscar	68	13-12-48
Ironside, Telfer G.	Scapa	35	18-10-48
Jamieson, William M.	Haikirk	18	18-10-48
Johnson, Reuben	Coleman	19	18-10-48
Kapach, Michael S.	Luscar	10	18-10-48
Kinjerski, Frank	Dodds	2	18-10-48
Klapstein, Rueben	South Edmonton	26	18-10-48
Konschuk, Victor	Gainford	35	18-10-48
Kubin, John J.	Luscar	72	21-12-48
Kukuchka, Peter	Coal Valley	60	13-12-48
Kwasney, Stanley	Mountain Park	70	13-12-48
Letcher, George L.	Mountain Park	42	18-10-48
Livingstone, Alan S.	Nacmine	34	18-10-48
Logan, Arthur	Morinville	6	18-10-48
Long, Charles	Blairmore	48	13-12-48
Long, James L.	Sterco	50	13-12-48
Mainland, William B.	Dodds	29	18-10-48
Melidones, Platos	Nordeg	54	13-12-48
Michalsky, Joseph J.	Blairmore	8	18-10-48
Mucha, John G.	South Edmonton	5	18-10-48
Munro, Stanley S.	Ardley	45	18-10-48
McDonald, Duncan	Gregg River	55	13-12-48
McKenzie, Melbourne W.	Blairmore	53	13-12-48
Nelson, Edgar S.	Eyremore	16	18-10-48
Newell, Edward	Seba Beach	40	18-10-48
Nottal, Florin	Three Hills	32	18-10-48
Olson, Melvin H.	Ardrossan	28	18-10-48
Osterlag, Gordon	Entwistle	7	18-10-48
Ozubko, William	Cadomin	61	13-12-48
Pahl, Fred M.	Hanna	36	18-10-48
Pahl, Otto F.	Hanna	62	13-12-48
Pastorchik, Walter	Three Hills	24	18-10-48
Petersen, Remus	Nordeg	57	13-12-48
Pinter, Joseph	Warburg	30	18-10-48
Pozzi, Dante	Bellevue	47	18-11-48
Reilly, Aloysius	Nordeg	65	13-12-48
Russell, Charles M.	Alix	20	18-10-48
Shulha, John P.	Blairmore	49	13-12-48
Sissons, Robert C.	Alix	27	18-10-48
Slunyski, George	Luscar	71	13-12-48
Sorken, Alfred N.	Killam	46	18-10-48
St. Martin, John B.	Legal	21	18-10-48
Stock, David	Cadomin	59	13-12-48

THE MINES BRANCH

FOREMAN—Continued

Name	Address	Cert. No.	Date of Issue
Thomas, William J.	Luscar	73	21-12-48
Tocher, Victor G.	Gregg River	58	13-12-48
Wilson, Rufus B.	Tofield	25	18-10-48
Wright, Alan	Blairmore	52	13-12-48

BLASTER

Babala, William	Luscar	27	21-12-48
Bozich, John	Blairmore	1	18-10-48
Christensen, Jens	Mountain Park	6	18-10-48
Comfort, Charles S.	Blairmore	12	18-10-48
Cunningham, Edward D.	Sterco	22	13-12-48
Curd, William F.	Sundance	3	18-10-48
Farrell, Clarence	Luscar	24	21-12-48
Gailey, Clifford H.	Nordegg	19	13-12-48
Hanson, Hans M.	Tofield	10	18-10-48
Henderson, William	Eyremore	4	18-10-48
Johnson, Anton	Eyremore	9	18-10-48
Karomarkovich, Marko	Cadomin	23	13-12-48
Korol, Steve	Coleman	20	13-12-48
Kropinak, Frank	Blairmore	2	18-10-48
Loveniuk, Nick	Coal Valley	15	13-12-48
Millar, William G.	Coleman	14	13-12-48
Miller, Alexander D.	Eyremore	7	18-10-48
Mordeen, Axel	Luscar	25	21-12-48
McLellan, Lloyd W.	Bellevue	21	13-12-48
Ohline, Axel	Cadomin	13	13-12-48
Pilichowski, George	Luscar	26	21-12-48
Pooke, Nick	Ryley	11	18-10-48
Savignac, Joseph	Sterco	17	13-12-48
Schenkenfelter, Mike	Wabamun	5	18-10-48
Thronsdon, Morris N.	Camrose	16	13-12-48
Wilson, Fred	Eyremore	8	18-10-48
Zupan, Anthony	Cadomin	18	12-12-48

LIST OF HOLDERS OF FIRST, SECOND AND THIRD CLASS CERTIFICATES, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES

Issued by the Government of the Province of Alberta to December 31st, 1948

List of Names of Holders of First Class Certificates

Name	Address	Cert. No.	Date of Issue
*Addie, W.	Lundbreck	19	25- 8-03
*Alderson, Fred D.	Hosmer, B.C.	52	27- 9-11
Allen, Peter	Wayne	72	5-11-12
Aschacker, Martin	Blairmore	16	13- 7-48
Ashburner, Edward	Lethbridge	40	9-12-10
Aspinall, Francis	Vancouver, B.C.	22	1- 3-09
Barclay, William	Drumheller	11	31- 7-36
Barnes, Arthur W.	Montana, U.S.A.	74	7-11-12
*Bastian, J.	Taber	43	19- 7-04
Baxter, Andrew W.	Calgary	47	22-12-10
Bilson, George H.	Rhodesia	27	28- 6-18
*Black, Ernest D.	Nova Scotia	84	29- 7-13
Blair, John	Wayne	55	24- 7-24
Blake, Henry	Blairmore	25	27- 7-17
Bradshaw, G. B.	Nanaimo, B.C.	61	16- 5-05
Brady, John	Canmore	14	20- 7-43
Broome, G. H.	New Zealand	46	28-11-04
Brown, Hugh R.	Carbon	26	28- 6-18
*Brown, J.	Calgary	18	24- 8-03
Brown, J. D. B.	Saunders	12	1- 8-42
Brown, R. J.	Montana, U.S.A.	30	3- 7-18
Brown, Thomas	Edmonton	42	5- 9-19
*Brownrigg, John H.	Bankhead	21	17- 7-17
Brusset, John A.	Blairmore	10	1- 8-42
Brydon, Andrew D.	England	4	17- 9-14
Burton, John T.	Drumheller	13	8- 8-36
*Callander, Ira C.	Pocahontas	13	12- 8-16
Campbell, Thomas	Drumheller	13	14- 7-43
Chavignaud, Louis G.	Coal Valley	71	6- 8-27
*Christianson, Peter	Edmonton	48	21-12-10
Church, J. A. H.	Nova Scotia	11	23- 1-08
Clark, H. Wilton	Drumheller	66	26- 7-27
Clyne, James M.	Edmonton	69	18- 3-12
Clyne, James M.	Edmonton	16	13- 7-44

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Cochrane, James	Cumberland, B.C.	12	31- 7-47
Collins, W. F.	Blairmore	24	31-10-03
*Colville, A.	Edmonton	52	19- 1-05
Congdon, Milton H.	Blairmore	1	17- 7-40
Coulthard, R. W.	Blairmore	8	19- 3-06
Coulthard, R. W.	Blairmore (duplicate)	24	11-10-09
Coupland, Edward	Cadomin	56	24- 7-24
Crabb, Daniel J.	Lethbridge	13	13- 7-48
Cranston, Michael	Calgary	35	2- 7-19
Crawford, Alexander	Kaydee	61	24- 7-25
Crawford, Hugh	Lethbridge	5	11- 7-41
Crawford, John	Edmonton	65	26- 7-26
*Crowder, Harry	Drumheller	5	18- 9-14
*Crowder, James	Drumheller	38	24-12-09
*Cumberford, James	Drumheller	80	19- 1-31
*Cunningham, G. F.	Edmonton	7	10- 1-08
D'Altroy, A. C.	British Columbia	53	17- 8-23
Dalziel, Robert	Edmonton	8	29- 7-33
*Darbyshire, J.	Bellevue	35	3-12-09
*Davidson, David	Bellevue	15	12- 8-16
Davidson, J. M.	Lethbridge	75	23- 7-29
*Davidson, W. A.	Alexo	25	27-11-09
Davies, Thomas O.	Calgary	22	17- 7-17
*Davis, David	Edmonton	62	28-11-11
deHart, Joseph B.	Calgary	86	29- 7-13
Dennis, Fred W.	Brooks	12	28-10-15
*Dickson, G. H.	Edmonton	3	31- 5-06
Dickson, James	Victoria, B.C.	9	3- 3-47
Donaldson, Adam G.	Shaughnessy	14	23- 8-37
Donaldson, Chris S.	Lethbridge	20	17- 7-17
Douglas, Peter S. Jr.	Cadomin	14	13- 7-48
*Drinnan, R. G.	Edmonton	29	30- 1-04
Duggan, William H.	Edmonton	85	29- 7-13
Dunn, A. C.	Edmonton	18	13- 1-09
Dunn, Robert A.	Nacmine	15	27- 8-43
Dutton, J. A.	Drumheller	4	25- 7-32
Elliott, D.	Blairmore	20	13-10-03
Ellis, William	Champion	15	8- 1-09
Emerson, J.	Canmore	41	25- 8-19
Emmerson, C.	Bellevue	49	9- 1-05
Emmerson, J.	Frank	50	14- 4-05
*Evans, D.	Michel, B.C.	1	15-10-98
*Evans, D.	Michel, B.C. (duplicate)	14	11-12-02
Evans, Howell	Luscar	6	25- 7-46
*Ferguson, C. J.	Edmonton	23	17- 7-17
*Finlayson, J.	Bassano	30	10- 2-04
Flint, W. G.	Edmonton	56	13- 4-05
Foster, William	Wabamun	40	12- 8-19
France, Thomas	Priddis	44	8-10-19
*Fraser, G. L.	Coleman	1	31- 5-06
*Fraser, Norman	Edmonton	1	21-12-05
Fraser, William B.	Coleman	1	16- 7-45
Gardner, H. H.	Coleman	9	18-12-34
Givin, Homer H.	Virginia, U.S.A.	57	23-11-11
Goodwin, William	Bellevue	12	4- 8-36
Gotheridge, William T.	Round Hill	54	16- 7-24
Graham, C.	Prince Rupert, B.C.	7	27- 2-06
Gray, David, Jr.	Washington, U.S.A.	65	4-12-11
Green, R.	Calgary	58	26- 4-05
Guernsey, F. W.	Vancouver, B.C.	80	18-12-12
Hall, William E. G.	Lethbridge	58	20- 7-25
Hamilton, Allan	Drumheller	52	17- 8-23
Hamilton, Duncan C.	Luscar	7	15- 7-41
Hamilton, Robert	Priddis	4	3- 1-07
*Hamilton, W. L.	Lethbridge	4	2-12-98
*Hardie, W. D. L.	Lethbridge	2	15-10-98
*Hargreaves, James	East Coulee	9	25- 6-01
*Hargreaves, James	East Coulee (duplicate)	48	9- 1-05
*Harrison, Stephen	Lethbridge	16	11- 1-09
Hart, John	Edmonton	23	23- 3-09
*Heathcote, Elijah	Coal Creek, B.C.	23	31-10-03
Heeley, William G.	Calgary	36	3- 7-19
Henrietta, Chas. M.	Byseville, U.S.A.	26	24-11-03
Hetherington, W. B.	British Columbia	38	9- 7-19
Hibbert, W. J.	Edmonton	79	10- 9-30
Hibbert, W. J.	Edmonton (duplicate)	7	29- 7-33
Higgins, Alexander	Calgary	19	7- 7-17
Hnatyshyn, A. C.	Luscar	6	22- 3-33
*Holden, James	Bankhead	14	7- 1-09
Hooks, Albert	Calgary	11	18- 7-47
Horne, James	Cadomin	21	21- 7-39
Horne, Robert	Coleman	12	7- 1-09
Horne, Thomas	Victoria, B.C.	6	26-12-07
Howden, A. B.	Scotland	50	1- 8-21
Howells, Nathaniel	Edmonton	64	4-12-11

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Hunter, Alexander B.	Edmonton	14	12- 8-16
*Huntrods, E. S. F.	Taber	3	29-12-05
*John, John	Fernie, B.C.	44	29- 4-04
*Johnson, Moses	Blairmore	79	14-11-12
Jones, Daniel	Robb	17	13- 7-44
Jones, David	Edmonton	67	27-11-11
*Jones, Griffith	Drumheller	63	21-10-25
Jones, J. R. B.	Hinton	18	21- 7-38
*Jones, Samuel A.	Nanaimo, B.C.	57	24- 4-05
*Jordan, William	Drumheller	11	9- 9-15
*Keith, Thos.	Taber	20	29- 1-09
Kellock, James	Coleman	76	8- 8-30
*Kellock, George	Coleman	59	23-11-11
Kerr, Alex.	Tonkin, B.C.	27	18-12-03
Kinsman, Alexander	Hosmer, B.C.	70	11- 5-12
Knox, Thos. K.	Coal Creek, B.C.	28	30-11-09
*Leblanc, Emile	Wayne	6	18- 9-14
*Lee, Robert J.	Estevan, Sask.	56	23-11-11
Lewellyn, D. R.	Michel, B.C.	42	2- 7-04
Lindoe, Luke	Coleman	77	8- 8-30
Little, John	Coalfields	5	2-12-98
Little, W. F.	Canmore	4	29-12-05
Lister, Arthur L.	Cadomin	3	18- 7-45
*Livingstone, Robert	Lethbridge	16	
Livingstone, R. D.	Lethbridge	7	29- 7-46
Manley, Henry L.	Fernie, B.C.	41	3- 6-04
*Marsh, John	Taber	6	1- 2-06
Marshall, John W.	Donalda	78	13-11-12
Marshall, Thomas	Calgary	8	13- 9-46
Mather, Thomas	Edmonton	81	20- 7-13
Maxwell Wm.	Pincher Creek	27	29-11-09
Melnik, Nick	Cadomin	4	11- 7-41
Melson, Philip	East Coulee	2	16- 7-45
Millar, Andrew A.	Edmonton	54	23-11-11
Millar, David	Robb	2	25- 8-31
Miller, Henry	Rosedale	8	25- 7-41
Mills, Thomas	Nanaimo, B.C.	35	2- 5-04
Milne, Morgan C.	Pocahontas	83	24- 7-13
Moore, Samuel M.	Bankhead	26	27-11-09
Morgan, Evan H.	Blairmore	3	27- 9-31
Morgan, Thomas E.	Hillcrest	15	26- 8-37
Morgan, Owen	Saunders	51	17- 8-23
Morgan, Owen	Saunders (duplicate)	19	4- 5-45
*Morris, Cyrus	Frank	12	13- 2-02
*Morris, Jas. J.	Canmore	3	3-11-98
Morris, William	Foothills	1	26- 7-31
Morrison, Edward	Fernie, B.C.	62	28- 9-25
*Morton, T. R.	Michel, B.C.	63	21- 7-05
Mrokwia, Victor, Jr.	Canmore	18	15- 7-44
Muir, Alexander	Edson	6	11- 7-41
Musgrove, William	Canmore	76	11-11-12
Macaulay, Angus G.	Drumheller	9	16- 8-15
*Macaulay, Donald A.	Drumheller	42	9-12-10
MacKinnon, Hugh G.	Drumheller	20	20- 7-39
McAndrew John M.	Calgary	11	1- 8-42
McCullough, James	Corbin, B.C.	41	17-12-10
McDonald, Duncan	Drumheller	60	23-11-11
McDonald, H. S.	Bellevue	17	7- 7-17
*McDonald, John R.	Edmonton	29	30-11-09
McDonald, Leslie M.	Coleman	23	28- 7-39
*McDonald, Noble M.	Vancouver, B.C.	33	9- 7-18
McEvoy, James	Fernie, B.C.	17	1- 8-03
McGuckie, Thomas M.	Wayne	43	1-10-19
McIntyre, John J.	Coleman	39	25- 7-19
McKay, Walter	Michel, B.C.	10	28- 5-47
*McKelvie, James	Nordegg	7	26-10-14
McLean Donald	Ladysmith, B.C.	62	22- 5-05
McLean, Michael D.	Michel, B.C.	68	30- 8-26
McLenhan, J. A.	Edmonton	39	13- 1-10
McLeod, John A.	Cadomin	18	7- 7-17
*McMillan, J. H.	Lethbridge	17	12- 1-09
McMullen, Arthur	Nordegg	3	6-11-40
*McVicar, Samuel	Frank	59	26- 4-05
Nugent, Bernard	Edmonton	57	1- 8-24
O'Donnell, Thomas	Rosedale	61	28-11-11
*Parker, John L.	North Star	25	13-11-03
Pascoe, Thomas	Edmonton	78	8- 8-30
*Pavier, Evan L.	Edmonton	24	24- 7-17
Pearson, Robinson	Fernie, B.C.	11	19-11-01
Pearson, R. N.	Frank	38	10- 5-04
Pickles, William	Edmonton	77	11-11-12
Pitcher, Norman C.	Edmonton	75	11-11-12
Potter, Idwal N.	Drumheller	22	25- 7-39

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Powell, John W.	Coleman	60	10- 5-05
*Puckett, Owen L.	Drumheller	29	3- 7-18
Quigley, D. H.	Coalhurst	28	28- 6-18
*Quigley, Jas. S.	Hillcrest	21	1- 2-09
Raisbeck, Luke	Aerial	47	28-11-04
Ramsay, P. M.	East Coulee	34	12-11-18
Rappell, Thomas	Canmore	17	1- 9-37
*Reed, Thomas	Northfield, B.C.	5	
Reid, Adam H.	Oklahoma, U.S.A.	3	18- 9-14
Reid, John C.	Okiahoma, U.S.A.	53	4-12-11
*Reynolds, E. E.	Lethbridge	33	5- 4-04
*Richards, Clifton C.	Calgary	36	13-12-09
Richards, James A.	Drumheller	39	17- 5-04
Richards, Russell	Drumheller	60	20- 7-25
Robert, Louis P.	Blairmore	10	16- 8-15
*Roberts, Edward I.	Edmonton	55	18-11-11
Robertson, John	Drumheller	2	22-12-05
*Robertson, John	Lundbreck	9	18- 1-08
Russell, James	Lethbridge	8	8-12-14
Russell, John	Round Hill	44	22-12-10
*Russell, Thomas	Victoria, B.C.	45	28-10-04
Sandino, J. A.	Drumheller	5	25- 7-32
Saville, Enoch D.	Taber	45	22-12-10
Scott, Alex.	Edmonton	5	26-12-07
Scott, A. N.	Luscar	19	25- 1-09
Scott, Thomas W.	Cadomin	67	17- 8-26
Shanks, David	Nordegg	16	4-11-16
*Sharp, Alex.	Edmonton	53	22- 2-05
Shaw, Robert	Blairmore	5	1- 8-45
*Shaw, William	Edmonton	46	22-12-10
Shepherd, F. H.	Victoria, B.C.	34	2- 5-04
*Shone, Samuel	Coleman	33	2-12-09
Simister, Chas.	Fernie, B.C.	21	13-10-03
*Smith, Frank B.	Edmonton	7	4- 6-01
Smith, Terence	Edmonton	10	1- 8-35
Smith, Thomas E.	Montana, U.S.A.	31	3- 7-18
Sparrow, Edwin	Lundbreck	13	7- 1-09
Stevens, Leonard C.	Edmonton	31	2-12-09
Stevenson, John	Scotland	68	6-12-11
Stevenson, John	Hillcrest	46	26- 7-20
Stevenson, William	Mercoal	87	29- 7-13
Stewart, James M. Jr.	Nordegg	48	26- 7-20
Stewart, Robert T.	Edmonton	50	12- 1-11
*Stirling, John T.	Edmonton	8	10- 1-08
*Stockett, Lewis	Vancouver, B.C.	51	19- 1-05
Stockett, Thos. R., Jr.	Nanaimo, B.C.	10	19-11-01
Strachan, Robert	Fernie, B.C.	31	10- 2-04
Symons, C. C.	Coalfields	37	2- 5-04
Tennant, Robert	Drumheller	59	20- 7-25
*Thain, Harry S.	Lethbridge	34	2-12-09
Thomas, David R.	Edmonton	2	12-10-40
Thomas, John Ira	Edmonton	49	16- 1-11
*Thomas, Joseph D.	Passburg	66	4-12-11
Thomas, Willis P.	Diamond City	58	23-11-11
Thomson, John	Edmonton	9	17- 7-42
Thorne, B. T.	Calgary	32	2-12-09
Touhey, James B.	Drumheller	19	27- 7-38
*Turner, John T.	Coalhurst	49	1- 8-21
Vivvyurka, John	Wabamun	4	26- 7-45
Waite, Archibald	Taber	15	9- 4-03
Wall, W. H.	Nanaimo, B.C.	32	10- 2-04
*Wark, S. D.	Passburg	37	15-12-09
Watson, Ronald H.	Edmonton	37	3- 7-19
Watson, William	Coleman	73	7-11-12
Watters, Alexander G.	Bankhead	32	5- 7-18
Watters, John	Banff	30	30-11-09
*Weatherby, C.	Coleman	2	31- 5-06
*Weich, Jas. D.	Nordegg	1	18- 9-14
White, E. Proctor	Lethbridge	8	17- 6-01
White, James B.	Nordegg	15	13- 7-48
*Whiteside, O. E. S.	Vancouver, B.C.	6	15-12-98
Whittaker, W. C.	Coal Valley	74	29- 7-28
*Wilkinson, Geo.	Nanaimo, B.C.	54	27- 3-05
*Wilkinson, Geo.	Nanaimo, B.C. (duplicate)	45	21-11-19
*Willey, Edward	Fernie, B.C.	71	1-11-12
Williams, Arthur E.	Saunders	69	1- 8-27
Williams, Thos. B.	Canmore	2	18- 9-14
Williams, T. H.	Taber	10	18- 1-08
*Williams W. P.	Blairmore	36	2- 5-04
Wilson, Andrew	Edmonton	70	1- 8-27
Wilson, Arthur B.	Lethbridge	28	12- 1-04
*Wilson, David G.	Fernie, B.C.	22	31-10-03
Worthington, W. T.	Edmonton	16	26- 8-37

List of Names of Holders of First Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Wright, H. B.	Fernie, B.C.	40	25- 5-04
*Wyllie, John B.	Frank	13	25-11-02
Yates, Frank	Michel, B.C.	73	29- 7-28
Young, David B.	Bellevue	64	26- 7-26

*Deceased.

Certificates issued previous to September 1, 1905, were issued under the provisions of The Coal-mines Regulation Ordinance of the North-West Territories.

List of Names of Holders of Second Class Certificates

Adams, Thomas H.	Beverly	127	26- 7-20
Adlam, William	Hillcrest	107	15- 7-19
Ainsworth, John H.	Haikirk	25	24- 7-42
Alexander, William	Bellevue	68	20- 7-38
Allen, Edgar	Coleman	16	18- 7-46
Allen, Peter	Wayne	72	20-12-11
Allen, William C.	Wayne	22	7- 9-15
*Anderson J.	Bellevue	2	30- 5-06
*Anderson, Peter B.	Mountain Park	139	26- 7-20
Anderson, William	Coleman	44	13- 6-48
Appleby, Wm. S.	Canmore	18	17- 7-42
Armstrong, John	Nordeg	110	16- 7-19
Aschacker, Martin	Blairmore	17	20- 1-42
Ashman, Alfred W.	East Coulee	88	3- 7-19
Ashurst, William	Coleman	51	17- 7-17
Aspinall, Francis	Vancouver, B.C.	27	27- 5-08
Atherton, Edward	Sheerness	49	17- 7-17
Badham, Thomas	Coleman	104	15- 7-19
Baich, Victor	Luscar	1	16- 7-45
Bainbridge, George E.	Nordeg	183	12-12-24
Bainbridge James	Nanaimo, B.C.	112	5- 8-19
Baines, Arthur	Lethbridge	41	13- 6-48
Balkwill, F. W.	Hillcrest	20	17- 7-42
Ball, Benjamin	Michel, B.C.	101	8- 7-19
Bamling J.	Diamond City	44	2-12-09
Barclay, Andrew	Frank	111	18-11-12
Barclay, Peter	Rosedale	4	3- 8-40
Barclay, William	Drumheller	54	10- 8-17
Barrie, John	Drumheller	8	26- 7-31
Barrowman, Alexander	Ardley	182	14-11-24
*Bastian, J.	Taber	21	7- 5-04
Bastian, T. W.	Clover Bar	27	8- 4-05
Baybutt, Thomas	Hillcrest	168	17- 8-23
Berford, Edward	Commerce	27	12- 8-16
Bianchini, Meno	Hillcrest	29	18- 7-47
Bilson, George H.	Rhodesia	2	27- 8-14
Birse, Alexander	Coalhurst	185	20- 7-25
Blair, John	Picture Butte	72	11- 7-18
Blake, Henry	Blairmore	128	31- 7-13
Blake, Raymond	Bellevue	28	12- 8-42
Blas, Emile	Wayne	169	17- 8-23
Blasetti, Angelo	Nordeg	17	19- 7-46
Boucher, Charles T.	Wayne	175	16- 7-24
Boughton, C. A.	Rosedale	10	25- 7-32
Bovio, M.	Bellevue	61	5- 7-18
Bowie, J.	Leduc	4	3- 1-07
Bradley, Thomas	Bellevue	166	17- 8-23
Bradshaw, Richard	East Coulee	8	12- 7-41
Brady, John	Luscar	141	26- 7-20
Brearley, Garnett	Coalhurst	78	23- 7-18
Bridge, Edward	Cumberland, B.C.	99	5-11-12
Briggs, William A.	Carbon	154	10-10-21
Brisco, Daniel	Luscar	19	21- 8-15
Brockhouse, I. B.	Milk River	74	20-12-11
Brooks, Burton T.	Drumheller	129	28- 7-20
Brown, Alan J.	Coleman	105	7-11-12
Brown, John	Canmore	13	18- 7-46
Brown, John D. B.	Mountain Park	55	4-11-36
Brown, J. F.	Edmonton	84	28- 6-19
Brown, Richard G.	Cadomin	192	30- 7-26
Brown, Thomas	Edmonton	55	17-11-17
Brown, William	Commerce	126	31- 7-13
*Brownrigg, John H.	Bankhead	21	30- 8-15
Burrell Archibald K.	Drumheller	37	26- 7-34
Burton, James	Robb	13	25- 7-32
Burton, John T.	Edmonton	212	23- 7-29
Burton, William H.	Edmonton	194	6- 8-26
Camarta, John	Cardiff	50	20- 7-44
Campbell, James	Calgary	94	20-12-40
Campbell, K. S.	Beverly	132	31- 7-13
Campbell, Thomas	Drumheller	174	16- 7-24

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Carmichael, Malcolm	Canmore	65	21- 7-38
Carr, Roy	Cadomin	55	28-11-44
Carr, Thomas	Cadomin	117	1-10-19
Carson, James	Spring Point	82	17-10-18
Carson, James	Edmonton (duplicate)	16	25- 9-41
Cartwright, Charles E.	Blairmore	85	2- 7-19
Castella, Jens	Standard	35	23- 7-24
Caufield, J.	Coal Creek, B.C.	105	15- 7-19
Chavignaud, Louis G.	Hinton	195	17- 8-26
Chestnut, C.	Vancouver, B.C.	30	18- 4-05
*Clark, J. C.	Blairmore	49	22-12-09
Clark, Robert	Hardieville	43	17- 7-17
Clarkstone, W. W.	Fernie, B.C.	93	3- 7-19
Clay, E.	Oxville	28	7- 1-09
Clemenson John	Scotland	58	17-12-10
Clyne, James	Edmonton	53	22- 4-10
Clyne, James M.	Edmonton	42	18- 7-35
Cole, J. J.	Canmore	126	26- 7-20
Congdon, Milton H.	Blairmore	158	1- 8-22
Conlin, John	Drumheller	33	22- 8-16
Cooke, Charles R.	Willow Creek	30	22- 4-43
Cooke, Joseph	Burmis	66	20- 2-11
*Corkill, T.	Michel, B.C.	13	
Coupland Edward	Cadomin	8	18- 9-14
Coupland, George	Bellevue	77	21-12-11
Courterelle, Allan F.	Drumheller	11	20- 8-45
Coutes, George	Lethbridge	20	26- 8-15
Cox, John C.	Toronto	42	7- 7-17
Crabb, Daniel J.	Lethbridge	21	17- 7-42
Crabb, Samuel A. B.	Lethbridge	52	17- 7-17
Cranston, Michael	Drumheller	119	29- 7-13
Crawford, Alexander	Edmonton	125	31- 7-13
Crawford, Charles	Edmonton	48	13- 7-48
Crawford, Hugh	Lethbridge	85	12- 8-39
Crawford, John	Edmonton	64	6- 7-18
Crawford, William S.	Lethbridge	66	9- 7-18
*Crowder Harry	East Coulee	69	18-12-11
*Crowder, James	Blairmore	10	26-12-07
Curry, John	Hillcrest	86	12- 8-39
D'Altroy, A. C.	British Columbia	145	1- 8-21
Dalziel, Robert	Edmonton	122	31- 7-13
Davey George	Rosedale	209	29- 7-28
Davidson, Albert M.	Dodds	202	20-12-27
*Davidson, David	Alexo	94	1-11-12
Davidson, John M.	Clover Bar	187	1- 8-25
Davies, D.	Ccleman	31	18- 4-05
Davies, John	Coleman	11	26-12-07
Davies, J. C. H.	Blakeburn, B.C.	219	10- 9-30
Davies, S.	Coal Creek, B.C.	18	10- 1-08
Davies, Thomas O.	Pincher Creek	104	7-11-12
*Davies, T.	Frank	54	22- 4-10
Davis, A.	Lethbridge	4	19-11-98
Davis, John	Lethbridge	31	11- 1-09
Deere, G. E.	Foothills	214	23- 7-29
Dennis, F. W.	England	3	27- 8-14
Dewar, Alexander	Coleman	16	16- 8-15
Dieter, W. J.	Sheerness	167	17- 8-23
*Digman, John H.	Coalhurst	134	31- 7-13
Dixon, John O.	High River	220	10- 9-30
Dixon, S.	Lille	24	8- 2-08
Dobson, Roy C.	Lethbridge	27	4- 8-42
Dolanz, Iggie	Heisler	46	18- 8-44
Donaldson, Adam G.	Lethbridge	40	13- 8-34
Donaldson, C. S.	Lethbridge	35	26- 8-16
Donaldson, Mathew	Shaughnessy	33	18- 7-47
Douglas, Peter S. Jr.	Cadomin	93	22- 4-40
Dropko, Wm.	Drumheller	48	18- 8-44
Duggan, R. G.	Taber	19	26- 4-04
Duncan, David R.	Nordeg	18	19- 7-46
Duncan, N. S.	Dodds	100	8- 7-19
Dunn, J. P.	Edmonton	9	26-12-07
Dunn, Robert	Willow Creek	6	12- 8-40
Dutton, Joseph A.	Mountain Park	198	1- 8-27
*Eccleston, W.	Michel, B.C.	16	10- 1-08
Edwards, John	Cadomin	7	26- 7-31
Edwards, Mark	Edmonton	50	7- 8-36
Edwards, Oliver E.	Cadomin	53	12- 8-36
Elkes, Frederick W.	Drumheller	33	23- 7-34
Ellison, Frederick	Drumheller	36	18- 7-47
Embree, Merton B.	Evansburg	98	3- 7-19
Emmerson, C.	Bellevue	3	15-11-98
Emmerson, Charles	Bellevue	35	18- 7-47
Erikson, Gustaf W.	Blairmore	81	25- 7-39
Esteban, Melchor	Calgary	59	23- 8-37

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Evans, Howell	Mountain Park	24	29- 7-33
Evans, Howell	Luscar (duplicate)	77	23- 3-39
Evans, Thos. R.	Coleman	137	31- 7-13
Farmer James	Drumheller	31	17- 7-47
Fawcett Elmer S.	Cardiff	51	7- 8-36
*Ferguson, C. J.	Edmonton	38	30- 8-16
Finlay, Samuel	Clover Bar	25	12- 8-16
Fisher, John M.	Shaughnessy	30	18- 7-47
Flint, W. G.	Edmonton	16	
Ford, Allen	Michel, B.C.	146	1- 8-21
Fortner, Edward	Tennessee, U.S.A.	57	3- 7-18
Foster, William	Robb	14	16- 8-15
Foster, W. R.	Taber	51	24- 1-10
Fox, Alfred A.	Canmore	63	13-11-37
Fox, A.	Nevis	42	29-11-09
Fox, Benjamin	Carbon	49	22- 7-44
France, Thomas	Priddis	67	9- 7-18
Francis, J.	Taber	29	8- 1-09
Fraser, Alex.	Carmanagay	221	10- 9-30
*Fraser, G. L.	Coleman	25	23-12-04
Fraser, James	Carbon	133	26- 7-20
Fraser, William B.	Coleman	31	18- 4-05
Fridel, Stephen	Edmonton	69	30- 7-38
Fulton, James K.	Coleman	133	31- 7-13
Fyfe, Walter H.	Nelson, B.C.	142	26- 7-20
Fyvie, J.	Drumheller	109	16- 7-19
Gallagher, John	Rosedale	49	22- 7-44
Garbett, Richard	Corbin, B.C.	100	5-11-12
Garrett, John	Blairmore	123	31- 7-13
*Gate, Harry	Coleman	124	26- 7-20
Gibson, George	Blairmore	54	13- 7-48
Gidman, Joseph H.	Taber	165	29-12-22
Giffen, H. R.	Carbon	14	1903
Gilliland, William	Cardiff	61	17-12-10
Gilmour, John	Drumheller	222	9- 2-31
Givens John	Wayne	99	8- 7-19
Gladwin, Lewis C.	Saunders	22	18- 7-42
Goodwin, Albert E.	Bellevue	72	26- 8-38
Goodwin, Geo. W.	Bellevue	2	26- 7-31
Goodwin, Wm.	Bellevue	9	26- 7-31
Gordon, Thomas	Drumheller	184	27- 5-25
Gotheridge, W. V.	Round Hill	43	24- 7-35
Graham, John	Coaldale	157	1- 8-22
Grant, Alexander	Hillcrest	24	22- 7-42
Green, R.	Calgary	17	26- 4-04
Greenhaigh, R. M.	Coleman	11	25- 7-32
Griffiths, Edward	Foothills	1	3- 8-40
Hall, James	Coal Creek, B.C.	190	26- 7-27
Hall, Oliver	Bellevue	26	23-12-04
Halliday, George W.	Nanaimo, B.C.	31	22- 8-16
Hallworth, Albert	Bellevue	65	30- 1-11
Hamilton, Allan	Drumheller	78	21-12-11
Hamilton, Allan	Drumheller (duplicate)	1	1- 4-14
Hamilton, John	Delia	18	10- 8-32
Hamilton, Joseph J.	Lethbridge	164	9- 9-22
Hamilton, Thomas M.	Blairmore	34	23- 7-34
Hargreaves, G.	Lethbridge	70	9- 7-18
Harpham, H. A.	Clover Bar	21	9- 9-46
Harries, Henry C.	Coleman	9	18- 9-14
Harries, John	Wayne	213	23- 7-29
Hartley, William	Bankhead	114	25-11-12
Harvie, Robert	Lethbridge	1	30- 5-06
Hastings Andrew P.	Champion	62	5- 7-18
Heap, Robert	Coalhurst	137	26- 7-20
Heathcote, Joseph	England	10	18- 9-14
Hedges, Richard	Beverly	111	18- 7-19
Heeley, William G.	Calgary	80	22-12-11
Heidel, Herbert G.	Priddis	26	1- 8-41
Henderson, A. J.	Luscar	7	20- 7-45
Henry, Wm. B.	Newcastle	76	9-11-38
Herman, J. R.	Mountain Park	19	20- 7-46
Heyworth, Ernest S.	Edmonton	45	2- 6-36
Hibbert, William J.	Dinant	191	26- 7-27
Higney, John	Coalhurst	130	26- 7-20
Hill, Ernest	Coleman	57	23- 8-27
Hill, James	Canmore	84	13- 1-12
Hilliary, Joseph	Bellevue	49	7- 8-36
Holliday, Thos.	Drumheller	71	17- 8-38
Holmes, Robert	Coleman	144	6- 1-21
Hooks, Albert	Drumheller	38	26- 7-34
Horkulak, A. H.	Edmonton	39	14- 7-44
Horne, Robert	Blairmore	12	26-12-07
Horswell John	Edmonton	34	1- 2-09
Horswell, John	Wayne	55	25- 5-10

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Hucik, Louis T.	Blairmore	20	29- 7-46
Hughes, Daniel J.	Diamond City	110	13-11-12
Hughes, John C.	Madrid	156	15-12-21
Hughes, William R.	Barnwell	13	6- 8-15
Hulbert, Havelock A.	Coleman	31	14- 7-43
*Hulme, Charles	Rocky Mountain House	63	6- 7-18
*Hunter, Alexander B.	Drumheller	7	18- 9-14
Hunter, Charles	Beverly	4	18- 9-14
Hunter, Henry	Edmonton	102	7-11-12
Hutchinson, A. M.	Coleman	6	3- 1-07
Hutchison, P.	Ardley	102	10- 7-19
Hutton, David T.	Bellevue	44	10- 7-17
Hutton, John	Edmonton	93	1-11-12
Ironmonger, John	Hillcrest	60	5- 7-18
Jackson, James	Bellevue	56	3- 7-18
*James, William	Pocahontas	5	18- 9-14
Joberg, A. F.	Della	68	9- 7-18
*Johnson, Moses	Blairmore	46	3-12-09
Johnstone, Alexander	Edmonton	7	11- 7-41
*Jones, C. E. R.	Cardiff	83	12-11-18
Jones, Daniel	Edmonton	178	24- 7-24
Jones, David	Edmonton	48	15-12-09
Jones, D.	Coalhurst	116	5- 9-19
Jones, Elias	Coleman	16	25- 7-12
*Jones, Iltyd	Edmonton	197	1- 8-27
Jones, John C.	Saunders	35	20- 7-43
Jones, Peter	Drumheller	92	1-11-12
Jones, Samuel A.	Nanaimo, B.C.	18	26- 4-04
Jones, William	Rosedale	10	30- 7-45
*Jordan, William	East Coulee	112	20-11-12
Kaye, Hershel	Pocahontas	129	31- 7-13
Keith, John D.	Coalhurst	107	11-11-12
*Kellock, George	Coleman	39	27-11-05
Kellock, James	Coleman	82	30-12-11
Kenakin, Peter	Rosedale	45	13- 7-48
Kennedy, Joseph	Willow Creek	47	31- 7-36
Kennedy, William	Coleman	4	17- 7-45
Kerr, John	Lethbridge	33	6- 7-05
Kerr, W. R.	Carbon	115	2- 9-19
Kubin, John J.	Coleman	32	14- 7-43
Lamond, David	Evansburg	36	20- 7-43
Larrai, Charles E.	Drumheller	74	12- 7-18
Lavis, George	Drumheller	218	10- 9-30
Leblanc, Emile	Taber	127	31- 7-13
*Lee, Robert J.	Esteven, Sask.	56	17-12-10
Letcher, William M.	Bankhead	96	1-11-12
Lindoe, Luke	Coleman	170	1- 9-23
Lister, Alexander B.	Edmonton	49	13- 7-48
Lister, Arthur A.	Cadomin	14	25- 7-41
Littler, James	Michel, B.C.	200	12- 8-27
Littler, Robert	Bankhead	6	18- 9-14
Livingstone, J. C.	Lethbridge	5	19-11-98
*Livingstone, Robert	Lethbridge	6	5- 6-99
Lloyd, James H.	Blairmore	12	25- 7-41
Lensbury, William P.	Coleman	15	18- 7-46
Looten, Henry	Newcastle	42	14- 7-44
Lowrie, Ralph	Frank	34	6- 7-05
Luck, George	Bellevue	70	19-12-11
Luini, Louis	Hillcrest	51	13- 7-48
Lundy, James	Drumheller	53	17- 7-17
Mackie, John	Bankhead	136	26- 7-20
Makin, J. W.	Hillcrest	103	15- 7-19
March, John	Edmonton	22	2- 8-46
Marconi, Gordon V.	Coleman	22	18- 7-47
Marconi, John T.	Coleman	14	18- 7-46
Marsh, E.	Wayne	113	25- 8-19
Marsh, John H.	Midlandvale	153	1- 8-21
Marsh, Walter	Delburne	20	21- 9-32
*Martin, Henry Sr.	Saunders	203	29- 2-28
*Martin, R.	Taber	114	25- 8-19
Mason, Samuel	Blairmore	130	31- 7-13
Messey, Harry	Corbin, B.C.	116	25-11-12
Mather, John	Edmonton	23	13- 9-15
Mather, John H.	Namoo	38	9- 9-43
Mather, Richard	Edmonton	29	10- 8-42
Mather, Stanley	East Coulee	8	23- 7-45
Mather, Thomas	Luscar	106	11-11-12
May, John	Edmonton	26	29- 7-33
Mayoh, Daniel	East Coulee	48	7- 8-36
Melling, Joseph	Lethbridge	82	25- 7-39
Melling, Peter	Coalhurst	28	12- 8-16
Melson, Phillip	East Coulee	45	15- 7-44
Menzies, Wm.	Drumheller	40	14- 7-44
Meyers, August	Drumheller	172	18-12-23

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Miard, Harry K.	Coal Creek, B.C.	64	16- 1-11
Miller, David	Mercoal	204	19- 7-28
Miller, Henry	Burmis	75	13-10-38
Miller, John K.	Drumheller	29	8- 4-05
Miller, John K.	Drumheller (duplicate)	210	24-11-28
Miller, John R.	Aerial	131	26- 7-20
Miller, Walter	Beverly	26	12- 8-16
Mills, Basil	Shaughnessy	84	12- 8-39
Mitchell, Robert A.	Luscar	28	18- 7-47
Mitchell, Thomas	Luscar	43	13- 7-48
Molnar, Vendel S.	Hillcrest	53	13- 7-48
Moore, Thomas E.	Drumheller	47	11-12-09
Moran, James	Edmonton	46	28- 7-36
Morgan, Daniel	Edmonton	17	10- 1-08
Morgan, Dewi R.	Bellevue	40	11- 5-48
Morgan, Evan H.	Edmonton	215	23- 7-29
Morgan, Owen	Saunders	121	29- 7-13
Morgan, Thos. E.	Hillcrest	27	22- 8-33
Morris, John	Lundbreck	8	3- 1-07
Morrison, Neil A. P.	East Coulee	37	20- 7-43
Mossey, Robert	Frank	173	16- 7-24
Mossey, Thomas	Lethbridge	95	3- 7-19
Mrokwia, Victor Jr.	Canmore	2	3- 8-40
Muir, Alexander	Alexo	67	27- 8-38
Muir, David	Edmonton	108	11-11-12
Munro, William K.	Blairmore	76	21-12-11
Murphy, Peter J.	Drumheller	91	24- 8-12
Murray, J.	Coalhurst	90	3- 7-19
Musgrove, Harry B.	Canmore	60	23- 8-37
*Musgrove, John	Canmore	2	15-11-98
*Musgrove, John	Canmore (duplicate)	9	25- 4-01
Musgrove, William	Canmore	32	6- 7-05
MacAskill, Donald	Drumheller	77	16- 7-18
MacDonald, James A.	Bellevue	79	21-12-11
MacDonald, J. H.	Nanaimo, B.C.	48	10- 7-17
MacDonald, L. M.	Bellevue	217	10- 9-30
McDonald, William	Drumheller	155	10-10-21
MacKay, Angus	Nova Scotia	81	26-12-11
McAndrew, J. M.	Calgary	64	19- 7-38
McCullough, Alex.	Coleman	143	10- 8-20
McCutcheon, J. A.	Midlandvale	58	19- 8-37
McDonald, Clyde P.	Bellevue	1	26- 7-31
McDonald, Duncan	Drumheller	60	17-12-10
McDonald, Hector S.	Coleman	17	16- 8-15
McDonald, J. O. C.	Coleman	15	16- 8-15
McDonald, Kenneth L.	Bellevue	23	27- 9-46
*McDonald, Noble M.	Bellevue	18	16- 8-15
McDonald, Thomas	Rosedale	41	14- 7-44
McDonald, William I.	Willow Creek	9	12- 7-41
McFegan, William	South Wellington, B.C.	34	22- 8-16
McGaw, Albert M. S.	Carmanagay	171	15- 9-23
McGowan, John M.	Newcastle	36	26- 7-34
McGregor, Alex.	Cardiff	1	20-12-05
McGregor, Thos. B.	Lethbridge	19	10- 8-32
McIntyre, Arnold J.	Mercoal	47	13- 7-48
McIntyre, John J.	Coleman	88	2- 3-12
McIntyre, John J.	Bellevue (duplicate)	41	9-12-16
*McKay, Donald	Bankhead	3	30- 5-06
McKean, John W.	Lethbridge	24	23-12-04
*McKelvie, Jas.	Hosmer, B.C.	43	29-11-09
McKenna, Peter	Cadomin	161	1- 8-22
McKinnon, H. G.	Canmore	76	13- 7-18
McKinnon, John L.	Coleman	80	26- 7-18
McLafferty, D.	Hillcrest	53	18- 8-44
McLean, Michael D.	Michel, B.C.	122	26- 7-20
McLellan, John A.	Mercoal	24	2-11-15
McLennan, John A.	Edmonton	33	1- 2-09
McLeod, Alexander	Drumheller	149	1- 8-21
McMillan, Donald	Pincher Creek	71	20-12-11
McMullen, Arthur	Nordeg	66	21- 7-38
McQueen, Alexander	Mercoal	2	16- 7-45
McQueen, Andrew	Edmonton	71	9- 7-18
*McVicar, Samuel	Frank	23	23-12-04
Nanson, Thomas H.	Bellevue	40	25- 9-16
Nicol, George	Drumheller	46	10- 7-17
*Nicol, James	Frank	36	10- 2-09
Novak, Mike	Milk River	32	22- 7-34
Nugent, Bernard	Camrose	73	11- 7-18
Oakes, Robert	Blairmore	17	25- 7-32
Oliphant, John T.	Medicine Hat	153	1- 8-21
Oliphant, Joseph H.	Carbon	59	17-12-10
Ostheidt, Gus	Cardiff	1	14-11-98
Ostler, James	Taber	160	1- 8-22
Ottewell, Cedric P.	Clover Bar	193	6- 8-26

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Ottewell, William J.	Clover Bar	176	16- 7-24
Park, Angus	Edmonton	15	28- 7-41
Park, Stewart G.	Lethbridge	57	17-12-10
Park, William	Bellevue	65	6- 7-18
Parker, Jack	Cardiff	52	6- 8-36
Parker, Levi	Cardiff	68	28- 4-11
Parry, Thomas	Coleman	109	12-11-12
Parsons, T. Lloyd	Edmonton	26	21- 3-08
*Pavier, Evan L.	Edmonton	37	30- 8-16
Peacock, Charles	Coalhurst	138	26- 7-20
Pearson, W. G.	Frank	15	26- 4-04
Pembleton, Geo. W.	Edmonton	97	3- 7-19
Penman, John S.	Rosenroll	120	29- 7-13
Peta, Julius	Hardieville	90	23-10-39
Pettigrew, Robert	Corbin, B.C.	30	27- 4-34
Phillips, Charles	Frank	20	26- 4-04
Pickles, William	Edmonton	35	1- 2-09
Picton, Daniel	Aerial	118	10- 2-13
Potter, I. N.	Nacmine	44	15- 8-35
Powell, Albert E.	Lundbreck	85	16- 1-12
Prendergast, Denis	Nova Scotia	188	26- 7-26
Prentice, John	Virginia, U.S.A.	45	2-12-09
Price, Stanley R.	Blairmore	79	25- 7-39
Puckett, Owen L.	Robb	50	17- 7-17
Queen, Andrew M.	Lethbridge	124	31- 7-13
Quigley, Daniel H.	Drumheller	73	20-12-11
Quin, James	East Coulee	23	29- 7-33
*Radford, James	Bellevue	140	26- 7-20
Radford, James T.	Bellevue	52	13- 7-48
Ralsbeck, R. M.	Drumheller	47	18- 7-44
Ramsey, Peter M.	East Coulee	86	24- 2-12
Rankin, George	Michel, B.C.	41	29-11-09
Rappel, Thomas	Canmore	206	19- 7-28
Rawlinson, R.	Cadomin	32	22- 8-16
Rear, Albert E.	Coleman	56	15-12-36
Redpath, James	Wayne	147	1- 8-21
Reed, Edward	Drumheller	135	26- 7-20
Reed, John C.	Edmonton	3	16- 7-45
Rees, Daniel	Blairmore	189	26- 7-26
Rice, Awrey	Edmonton	2	20-12-05
Richards, Evan	Edmonton	59	3- 7-18
Richards, Samuel	Bellevue	98	5-11-12
Riordan, Leo	Canmore	19	17- 7-42
Roberts, D. E.	Coleman	14	10- 1-08
Roberts, D. O.	Cardiff	86	2- 7-19
*Roberts, E.	Rosedale	87	2- 3-12
*Roberts, E. I.	Edmonton	52	12- 3-10
Roberts, G.	Lethbridge	79	23- 7-18
Roberts, John	Cadomin	12	26-10-14
Robertson, Duncan	Drumheller	29	10- 3-34
Robinson, William	British Columbia	30	22- 8-16
Rochester, Jasper J.	Hinton	78	20- 7-39
Rolfe, E.	British Columbia	211	4- 2-29
Ruffell, Alfred	Lethbridge	180	11- 8-24
Russell, John	Alix	29	12- 8-16
Samis, Earl L.	Namoo	62	30- 9-37
Sandino, J. A.	Drumheller	91	3- 7-19
Sarsfield, Wm.	East Coulee	83	28- 7-39
Saunt, James	Drumheller	123	26- 7-20
Scarpino, Eugene M.	Rosedale	5	4- 9-40
Scarpino, F.	Wayne	121	26- 7-20
Schmidt, Otto P.	Camrose	115	25-11-12
Schymizek, John	Wabamun	38	18- 7-47
Scott, Alexander	Pocahontas	103	7-11-12
Scott, Andrew N.	Luscar	19	10- 1-08
*Scott, Frederick G.	Brule	128	26- 7-20
*Scott, Hugh	Lethbridge	7	9- 3-00
Senycz, John J.	Bellevue	37	18- 7-47
Sequin, Joseph A.	Estevan, Sask.	22	16- 4-04
Shanks, David	Nordeg	117	7-12-12
Shaw, Joseph H.	Kimberley, B.C.	196	22- 9-26
Shaw, Robert	Coleman	70	2- 8-38
Shaw, Thomas J.	Hinton	75	21-12-11
*Shaw, William	Edmonton	21	18- 1-08
Shaw, William G.	Kimberley, B.C.	177	24- 7-24
Shearer, John C.	Hillcrest	33	20- 7-43
Shepherd, William	East Coulee	34	18- 7-47
*Shone, Samuel	Coleman	23	23- 1-08
Sihvon, William	East Coulee	40	29-11-09
Simmons, Harry	Mountain Park	89	14- 9-39
Simpson, William G.	British Columbia	45	10- 7-17
Sinclair, James	Drumheller	81	7- 8-18
Sinoski, Steve	Edmonton	80	25- 7-39
Sloan, Thomas W.	Burmis	67	2- 3-11
Smillie, Walter	Drinnan	44	14- 7-44

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Smith, Peter	Coleman	39	13- 8-34
Smith, Terrence	Beverly	205	19- 7-28
Smith, Thomas E.	Montana, U.S.A.	39	14- 9-16
Snow, Percy E.	Morley	24	4-12-46
Sparrow, Edwin	Tawatinaw	7	3- 1-07
Steele, Francis M.	Pincher Creek	125	26- 7-20
Steele, Thomas	Coleman	12	26- 4-04
Stephenson, Joseph	Bellevue	135	31- 7-13
Stephenson, Thomas	Bellevue	136	31- 7-13
Stevenson, John	Sectland	47	10- 7-17
Stevenson, Robert	East Coulee	13	25- 7-14
Stewart, James M. Jr.	Nordegg	50	24-12-09
Stocco, Reno	Drumheller	25	18- 7-47
Strang, David	Mountain Park	15	25- 7-32
Stratton, J. M.	Redcliff	94	3- 7-19
Stratton, Robert	Wabamun	39	18- 7-47
Strecker, John	Rosedale	32	18- 7-47
Strickland, Thomas	Three Hills	101	5-11-12
Strickland, Thomas	Three Hills (duplicate)	54	16-10-36
Strickland, William	East Coulee	11	14- 7-41
Surrendi, Nick	Wayne	6	18- 7-45
Sutherland, S. R.	Bellevue	28	22- 8-33
Swan, John	Edmonton	12	25- 7-32
Talbot, W. J.	Edmonton	207	29- 7-28
Tamborini, Bruno	Bellevue	50	13- 7-48
Taylor, C. M.	Edmonton	118	1-10-19
Taylor, George W.	Lethbridge	83	30-12-11
*Taylor, Thomas	Hillcrest	62	22-12-10
Tennant, Robert	East Coulee	58	3- 7-18
*Teppo, Herman	Bellevue	15	10- 1-08
Thackray, Fred	Lethbridge	208	29- 7-28
Thain, Harry S.	Lethbridge	32	12- 1-09
*Thomas, David	Bankhead	28	8- 4-05
Thomas, David R.	Edmonton	73	3- 9-38
Thomas, Isaac	Coleman	131	31- 7-13
Thomas, Isaac	Coleman (duplicate)	120	2- 1-20
Thomas, John	Diamond City	30	8- 1-09
Thomas, John	Frank	89	25- 3-12
*Thomas, Jos. D.	Drumheller	37	25-11-09
Thomas, Wm. J.	Luscar	51	24- 7-44
Thomason, C.	Blairmore	119	12-11-19
Thompson, Joseph	Coleman	97	1-11-12
Thompson, Joseph	Carbon	91	9- 1-40
Thompson, T.	Coleman	87	2- 7-19
Thomson, Andrew R.	East Coulee	159	1- 8-22
Thomson, George G.	Lethbridge	163	9- 9-22
Thomson, James	Namao	6	27- 7-31
Thomson, John	Edmonton	4	26- 7-31
Tiberg, A. J.	Blairmore	34	20- 7-43
Tiberghien, A. J.	Coleman	9	24- 7-45
Tonge, Reginald	Blairmore	54	5-10-44
Tonge, Thomas	Lundbreck	90	1- 6-12
Touhey, J. B.	Drumheller	22	6- 5-33
Trevethin, Mark	Wayne	3	3- 8-40
Tully, Thomas	Fernie, B.C.	75	12- 7-18
*Turner, J. H.	Coalhurst	89	2- 7-19
Turner, Leonard	Nordegg	132	26- 7-20
Turner, Leonard	Nordegg (duplicate)	179	11- 8-24
Tyer, Edward	Shaughnessy	61	27- 8-37
Tyer, Harold	Lethbridge	87	12- 8-39
*Unsworth, Robert	Hanna	36	30- 8-16
Utley, F. W.	Bellevue	108	16- 7-19
Villard, Henry	Wabamun	181	11- 8-24
Vivyrka, John	Mercoal	21	28- 9-32
Waite, Archibald	Taber	10	26- 4-04
Wakaruk, George	Newcastle	26	18- 7-47
Watkins, J. M.	Taber	106	15- 7-19
Watkins, W. E.	Champion	20	18- 1-08
*Watson, William	Big Valley	13	26-12-07
Watters, A. G.	Pocahontas	95	1-11-12
Watters, John	Banff	22	18- 1-08
*Weatherby, Cory	Hillcrest	11	6-11-02
Webster James S.	Shaughnessy	88	17- 8-39
*Welch, James D.	Taber	113	20-11-12
Welsh, Edwin L.	Lethbridge	10	12- 7-41
Westcott, Henry M.	Wayne	201	10- 9-27
Wheatley, F. M.	Banff	3	26- 7-31
White, James B.	Nordegg	12	25- 8-45
Whitehead, J. W.	Blairmore	216	5- 9-29
Whitelaw, Thomas	Lethbridge	25	24- 2-08
Willefs, Frederick	Hillcrest	148	1- 8-21
Williams, Albert	Edmonton	134	26- 7-20
Williams, Arthur E.	Saunders	162	1- 8-22
Williams, John J.	Edmonton	11	18- 9-14
Williams, Thomas H.	Vancouver, B.C.	8	20- 7-00

List of Names of Holders of Second Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Williams, W. E.	Edmonton	96	3- 7-19
Williamson, David S.	Camrose	199	5- 8-27
Wilson, Robinson	Drumheller	151	1- 8-21
Wilson, William G.	Tacoma, U.S.A.	3	20-12-05
Wiltse, Donald H.	Edmonton	5	26- 7-31
Winter, Archibald	Edmonton	63	16- 1-11
Womersley, Alfred	Blairmore	25	29- 7-33
Worthington, Thomas	Lethbridge	69	9- 7-18
Worthington, Willard T.	Edmonton	42	13- 7-48
Worthington, W. T.	Edmonton	92	3- 7-19
*Wright, J. S.	Canmore	38	27-11-09
Yard, George C.	Nordegg	150	1- 8-21
Yard, Lloyd G.	Trochu	5	17- 7-45
Young, Charles	Bellevue	23	22- 7-42
Young, D. B.	Bellevue	186	24- 7-25
Young, John	Drumheller	52	26- 7-44
Zemek, Joseph	Frank	46	13- 7-48

*Deceased.

List of Names of Holders of Third Class Certificates

Name	Address	Cert. No.	Date of Issue
Adams, Thomas H.	Beverly	16	10- 3-14
Adamson, Alexander	Perbeck	231	22- 6-36
Adamson, Robert	Huxley	157	12- 6-34
Adlam, William	Hillcrest	108	2- 6-10
Ainsley, George H.	Morley	126	13- 7-48
Ainsworth, John H.	Halkirk	29	25- 7-41
Aitchison, Peter	Lethbridge	230	22- 6-36
Aitken, James R. S.	Nordegg	98	9- 8-44
Aitken, William	Mountain Park	668	24- 3-28
Akitt, William	Carmanagay	40	11- 1-46
*Alderson, R. D.	Coleman	17	3- 1-07
Alexander, Wm.	Bellevue	8	26- 7-31
Allan, Alexander M.	Hosmer, B.C.	247	31- 7-13
Allan, William H.	Drumheller	347	8- 6-39
Allan, William H.	Drumheller (duplicate)	409	14- 9-40
Allanby, Chas. H.	Foothills	679	19- 7-28
Allen, Edgar	Wayne	436	29- 8-21
Allen, Thos. G.	Blairmore	765	4- 6-30
Allen, Walter F.	Wayne	315	4- 7-38
Allen, William C.	Wayne	205	10- 8-12
Allman, William	Coleman	79	30- 1-47
Ambrassi, Antonio	British Columbia	478	1- 8-22
Anderson, Andrew	Bellevue	39	7- 6-14
Anderson, Arne	Elnora	313	4- 7-38
Anderson, Gunner W.	Evansburg	650	1- 8-27
Anderson, Hugh W.	Edmonton	150	7- 7-17
*Anderson, J.	Frank	13	
*Anderson, Peter B.	Mountain Park	264	26- 6-19
Anderson, Robert	Drumheller	638	17- 8-26
Anderson, Robert	Drumheller	258	23- 6-37
Anderson, Robert	Drumheller	37	20- 4-42
Anderson, William	Coleman	114	13- 7-48
Andrew, Alfred	Edmonton	355	8- 6-39
Annon, Joseph L.	Winnifred	65	25- 6-32
Annon, Joseph L.	Bow Island (duplicate)	69	3-11-43
Antonenko, Andrew R.	Mountain Park	47	18- 7-46
Antrobus, Fred	Coleman	461	31- 7-22
Antrobus, Fred	Coleman (duplicate)	71	6- 8-46
Appleby, Wm. S.	Canmore	117	6- 7-23
Appleton, John J.	Mountain Park	76	19- 4-15
Arbuckle, John	Mountain Park	263	26- 6-19
Archer, Roland	Hillcrest	132	22-12-10
Archibald, David	Bickerdike	222	25-11-12
Armstrong, Alex.	Drumheller	697	16- 8-28
Armstrong, John	Castor	171	17- 7-17
Armstrong, John	Castor	719	7- 6-29
Armstrong, Peter M.	Nordegg	224	8- 6-18
Aschacker, Martin	Blairmore	1	3- 8-40
Ashman, Alfred W.	East Coulee	151	7- 7-17
Ashmore, Jas. Jr.	Champion	108	15- 6-33
Ashton, William	Hinton	90	27- 8-15
Ashurst, W.	Coleman	82	26- 8-09
Aspinall, Francis	Drumheller	32	30- 5-07
*Astley, David	Luscar	483	1- 8-22
Atherton, Edward	Sheerness	40	14- 7-14
Atkinson, Chas. W.	Drumheller	249	3- 6-37

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Augustin, Ernest C.	Grande Prairie	164	19- 6-34
Autio, Victor	Canmore	127	13- 7-48
Babino, Arthur	Bankhead	312	26- 7-20
Bachynski, John	Newcastle	348	8- 6-39
Badham, Thomas	Coleman	153	7- 7-17
Baich, Victor	Luscar	89	18- 7-44
Bailey, Leonard H.	Coalhurst	699	16- 8-28
Bainbridge, G. E.	Nordeg	343	26- 7-20
Bainbridge, James	Pecahontas	235	31- 7-13
Baird, John	Blairmore	243	31- 7-13
Baird, William	Drumheller	218	5- 6-18
Baker, R. D.	Luscar	41	27- 7-31
Baker, Robert W.	Coleman	456	31- 7-22
Baker, Stanley J.	Mercoal	43	18- 7-46
Balkwill, Frederick W.	Alexo	631	30- 7-26
Ball, Alfred	Natal, B.C.	292	20-11-19
Bambrough, George	Hillcrest	345	26- 7-20
Bansemmer, R.	Bankhead	14	3- 1-07
Barber, J.	Frank	7	3- 1-07
Barber, James S.	Hillcrest	144	3- 7-11
Barber, William J.	Drumheller	781	10- 6-30
Barclay, Daniel	Dinant	89	23- 9-32
Barclay, Peter	Foothills	332	7- 9-38
Barclay, R. W.	Drumheller	313	26- 7-20
Barclay, William	Bankhead	22	13- 3-14
Barclay, W. G.	Pecahontas	30	23- 4-14
Barnes, B. J.	Coal Creek, B.C.	92	29-11-09
Barnes, Edwin	Mountain Park	137	25- 9-16
Barnes, Ernest	Coleman	453	31- 7-22
Barnes, George S.	Mountain Park	290	8- 6-38
*Barnes, John W.	Coleman	512	30- 6-23
Barnes, Thomas	Blairmore	387	1- 8-21
Baroni, Alfred	Edmonton	166	27- 6-34
Barons, James	Drumheller	48	3- 8-31
Barrass, Thomas	Wayne	40	27- 7-31
Barrie, James	Commerce	401	1- 8-21
Barringham, F. J.	Rosedale	362	26- 7-20
Barrowman, Alexander	Nordeg	548	15- 9-23
Bartlett, Wallace	Elcan	173	17- 7-17
Barton, John S.	Nordeg	68	25-10-43
Bastian, T. W.	Bankhead	30	5-12-04
Batchelor, Frank	Lethbridge	275	10- 9-37
Bateman, Fred	Sheerness	123	14- 7-16
Bateman, James	Lethbridge	279	26- 6-19
Battee, Noyes S.	Drumheller	381	1- 8-21
Batty, George	Nordeg	3	3- 8-40
Baxter, Robert	Locheam	374	17- 6-21
Beal, George F.	Bellevue	7	20-12-13
Bealle, Fred A.	Brule	285	26- 6-19
Bedwell, Alfred E.	Lethbridge	415	1- 8-21
Bell, William	Coleman	95	12-10-15
Bell, William	Canmore	798	8- 8-30
Bennett, Isaac	Armada	179	17- 7-17
Berford, Edward	Elcan	196	13- 7-12
Berlando, Silvio	Rosedale	4	16- 7-45
Besso, A.	Canmore	80	26- 7-09
Bevan, Walter	Canmore	721	7- 6-29
Beveridge, Andrew	Commerce	156	7- 7-17
Beveridge, Andrew	Coleman	314	26- 7-20
Beveridge, James	Nordeg	65	30- 7-43
Beveridge, John S.	Midlandvale	122	29- 7-33
Bianchini, Armand	Hillcrest	59	20- 7-43
Bianchini, Meno J.	Hillcrest	9	16- 7-45
Bignell, Emford L.	Gadsby	170	26- 7-34
Billington, Edward E.	Coleman	73	25- 2-12
Binder, Christopher	Ryley	129	13- 7-48
Bird, Richard	Nordeg	357	26- 7-20
Birrell, William	Robb	1	29- 1-31
Birse, Alexander	Coalhurst	268	26- 6-19
Birt, William C.	Evansburg	452	31- 7-22
Black, Andrew Jr.	Rosedale	184	17- 1-35
Blackett, W. M.	Drumheller	131	15-10-33
Blades, James	Delburne	62	25- 6-32
Blair, John	Edmonton	183	25- 7-17
Blake, Henry	Bellevue	133	30-12-10
Blake, P.	Lundbreck	23	14- 5-07
Blake, Raymond	Bellevue	408	29- 2-40
Blake, Robert	Bellevue	391	22- 8-39
Blake, Sylvanus R.	Wayne	384	1- 8-21
Blakemore, Royden E.	Edmonton	227	16-12-12
Bland, H. A.	Taber	296	3- 2-20
Blas, Emil	Blairmore	91	22-10-32
Blas, Emile	Bellevue	382	1- 8-21
Blas, Victor	Blairmore	787	14- 6-30

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Blasetti, Angelo	Nordegg	85	17- 7-44
Blum, Leo	Lymburn	336	19- 9-38
*Blusson Joseph T. C.	Champion	253	26- 6-19
Bcbrovski, Martin	Mountain Park	217	5- 6-18
Boldon, James	Bellevue	86	19- 8-15
Bond, Bertram	Coleman	106	15- 6-33
Bonetti, D.	Champion	73	25- 6-32
Bonner, Fred	Evansburg	542	1- 9-23
Booth, George	Edmonton	85	18- 8-15
Booth, Harry	Beverly	654	12- 8-27
Booth, Joseph	Drumheller	98	10- 6-33
Bordula, Andrew J.	Hanna	160	16- 6-34
Boscariol, J.	Mountain Park	521	17- 8-23
Boseley, Joseph H.	Bellevue	780	10- 6-30
Boughton, C. A.	Rosedale	755	12-11-29
Boulton, W. E.	Bankhead	48	29- 5-08
Boutry, A.	Bellevue	557	4-12-23
Bovio, Michael	Bellevue	146	3- 7-11
Boyчук, Michael T.	Shaughnessy	324	12- 8-38
Boyd, John	Wayne	390	1- 8-21
Bradley, James	Foreman	103	10- 6-33
Bradley, Thomas	Hillcrest	138	16- 1-11
Bradley, Walter	Cardiff	490	1- 9-22
Bradshaw, James	Scapa	690	16- 8-28
Bradshaw, Richard	East Coulee	209	26- 7-35
Bragdich, George	Thelma	207	24- 7-35
Brearley, Garnet	Lethbridge	18	16- 3-14
Brennan, John	Long Coulee	261	26- 6-19
Brewer, Thomas W.	Drumheller	529	17- 8-23
Bridarolli, G.	Magrath	203	8- 7-35
Briers, Leonard	Red Deer	317	8- 7-38
Briggs, Alfred J.	Drumheller	254	26- 6-19
Briggs, Charles	Canmore	302	26- 7-20
Briggs, William A.	Drumheller	414	1- 8-21
Briggs, Wm. A. Jr.	Drumheller	346	8- 6-39
Brinkman, Alfred T.	Craigmyle	16	14- 1-41
Brisco, Daniel	Hillcrest	117	9- 6-10
Broderick, Frederick	Drumheller	702	24-10-28
Broderick, Gideon	Canmore	221	10- 3-36
Brooks, Burton T.	Drumheller	167	17- 7-17
Brooks, Claude E. E.	Drumheller	220	8- 6-18
Brooks, George W.	Beverly	499	1-11-22
Brooks, John	Bellevue	428	1- 8-21
Brown, Alan J.	Cardiff	163	17-11-11
Brown, Austin L.	Edmonton	510	30- 5-23
Brown, Clarence H.	Drumheller	554	15-11-23
Brown, David M.	Commerce	157	7- 7-17
Brown, Frank	Coal Creek, B.C.	262	26- 6-19
Brown, Frederick	Edmonton	58	2- 6-32
Brown, George A.	Michel, B.C.	432	29- 8-21
Brown, John	Canmore	185	20- 2-35
Brown, J. D. B.	Mountain Park	129	26- 8-35
Brown, John F.	Pocahontas	29	21- 4-14
Brown, John R.	Cadomin	105	18- 7-47
Brown, Richard G.	Cadomin	598	20- 7-25
Brown, Richard, G. F.	Cadomin	87	18- 7-47
Brown, Robert	Bellevue	112	10- 7-16
Brown, T.	Bankhead	24	14- 5-07
Brown, Thomas W.	Edmonton	377	1- 8-21
Brown, Vernon J.	Coleman	14	16- 7-45
Brown, William	Canmore	676	19- 7-28
*Brownrigg, John H.	Frank	35	26-12-07
*Brovey, A. C.	Edmonton	64	1- 2-09
Brugos, Joseph	Mountain Park	80	3- 6-46
Bryant, E. A.	Wabamun	337	1-10-38
Budd, Kenneth J.	Coleman	3	16- 7-45
Budda, Joseph J.	Bellevue	145	5- 6-34
Budesheim, August E.	Dimsdale	238	20- 8-36
Bulat, John	Edmonton	291	8- 6-33
Burcey, A.	Calgary	352	26- 7-20
Burnham, George	Fallis	560	18-12-23
Burrell, Archie K.	Drumheller	793	3- 7-30
Burrell, John	Coleman	607	25- 7-25
Burrows, C.	Frank	40	18- 1-08
Burrows, James G.	Bellevue	617	14-10-25
Burton, James	Edmonton	670	19- 7-28
Burton, John T.	Edmonton	448	21- 7-22
Burton, William H.	Entwistle	553	1-11-23
Butts, Russell J.	Alexo	38	8- 8-45
Byers, John W.	Taber	48	25-11-14
Byron, John	Coalhurst	11	10- 3-14
Calderbank, J. S.	Scapa	155	12- 6-34
*Callander, Ira C.	Pocahontas	78	19- 8-15
Camarta, John	Bittern Lake	287	8- 6-38

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Cameron, Donald	Coalspur	331	26- 7-20
Campbell, George P.	Nordegg	229	8- 6-18
Campbell, Harry B.	Forestburg	303	22- 6-38
Campbell, Henry	Bellevue	188	13- 8-17
Campbell, James	Cluny	107	15- 6-33
Campbell, John H.	Canmore	71	16- 2-15
Campbell, Kenneth S.	Edmonton	102	27- 1-10
Campbell, Robert G.	Coleman	17	16- 7-45
Campbell, Thomas	Lousana	41	14- 3-46
Campkin, Bruce C.	Lovettville	247	25- 6-19
Campkin, Robert	Lousana	384	20- 7-39
Candlish, W. S.	Brule	366	26- 7-20
Canet, Camille A.	Blairmore	601	25- 7-25
Cardie, James	Bellevue	481	1- 8-22
Carmichael, Maurice	Forestburg	94	28- 7-44
Carr, John R.	Cadomin	62	20- 7-43
Carr, Thomas	Nanton	283	26- 6-19
Carson, George	Frank	154	8- 7-11
Carson, James	Frank	120	21- 6-10
Carson, James	Edmonton (duplicate)	105	6- 3-45
Cartledge, George F.	Aerial	673	19- 7-28
Cartwright, Chas. E.	Blairmore	198	4- 4-18
Carty, Patrick	Evansburg	595	20- 7-25
Castella, Jens	Standard	743	5- 7-29
Catchpole, C.	Three Hills	2	30- 5-06
Causey, Thomas	Taber	403	1- 8-21
Cawthorne, L.	Frank	46	18- 4-05
Celli, Jerry J.	Coleman	46	18- 7-42
Challenger, Edward J.	Magrath	86	24- 8-32
Chalmers, James	Edmonton	278	26- 6-19
Chalmers, Robert	Edmonton	454	31- 7-22
Chalmers, Robert	Edmonton	15	26-11-40
Chamberlain, William H.	Coleman	162	19- 6-34
Chambers, Ralph H.	Lovettville	246	25- 6-19
Chaplow, Joseph	Lethbridge	49	25-11-14
Chapman, Christopher	Drumheller	232	12- 6-18
Chapman, John W.	Mountain Park	245	31- 5-37
*Charlton, Samuel	Hillcrest	179	23-11-11
Chavignaud, Louis G.	Luscar	626	26- 7-26
Chemotti, Guiseppe	Lethbridge	239	25- 8-36
Cherrille, Orlando	Edmonton	371	22- 6-39
Chesney, Samuel	Cadomin	43	17- 7-42
Chestnut, C.	Blairmore	28	26- 4-04
Chestnut, C.	Blairmore (duplicate)	28	6- 7-05
China, John	Nordegg	480	1- 8-22
Chisholm, John A.	Luscar	37	22- 8-31
Chiswick, James	Gadsby	175	27- 8-34
Chiuppi, James	Drumheller	62	24- 7-46
Christie, Joseph	Bellevue	731	17- 6-29
Churchill, J.	Frank	45	18- 4-05
Clack, Robert W.	Drumheller	740	17- 6-29
Clancy, James	Craigmyle	28	3- 8-31
Clark, John	Bankhead	301	26- 7-20
*Clark, J. C.	Blairmore	33	18- 7-07
Clarke, Richard	Hillcrest	500	1-11-22
Clark, Robert	Lethbridge	212	31-10-12
Clarke, Robert G.	Drumheller	70	16- 2-15
Clelland, Thomas	Edmonton	574	24- 7-24
Clelland, William	Lethbridge	421	1- 8-21
Clemenson, John	Bankhead	105	30- 5-10
Clozza, Angelo	Newcastle	193	10- 6-35
Clyne, James	Canmore	65	1- 2-09
Clyne, James M. Jr.	Edmonton	45	26- 8-31
Coates, Ernest	Bellevue	35	24- 7-45
Cocchioni, Augustus	Kelowna, B.C.	411	12-11-48
Cole, J. J.	Bankhead	66	1- 2-09
Colbourne, J. H.	Drumheller	710	1- 5-29
Colley, David G.	Rosedale	121	13- 7-48
Collins, Sidney G.	Edmonton	219	5- 6-18
Colonel, Daniel	Edberg	318	14- 7-38
Comin, Silvio	Bellevue	148	5- 6-34
*Congalton, Clem S.	Vancouver, B.C.	315	26- 7-20
Congdon, Milton H.	Blairmore	476	1- 8-22
Conley, Leroy L.	Saunders	260	26- 6-19
Conlin, Richard	Drumheller	656	14- 8-27
Convery, Dennis	Coleman	107	10- 7-16
Cooke, Chas. R.	Willow Creek	395	10- 9-39
Cooke, J.	Bankhead	4	30- 5-06
Coombs, Walter P.	Taber	164	17-11-11
Cooper, John A.	Lethbridge	166	10- 7-17
Cordell, Emile G.	Halkirk	91	18- 7-44
Cotterill, John	Rosedale	346	26- 7-20
Coulter, Thomas	Calgary	130	13- 7-48
Coupland, Edward	Lundbreck	173	17-11-11
Coupland, George	Bellevue	148	4- 7-11

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Courtorelle, Alan F.	Drumheller	171	13- 8-34
Cousens, Gilbert W.	Bellevue	199	4- 4-18
Coutts, Anthony B.	Hardieville	178	17- 7-17
Coutts, David	Hardieville	23	30- 3-14
Coutts, George	Lethbridge	210	26-10-12
Cowan, James	High River	459	31- 7-22
Cowan, Robert	Drumheller	92	22-10-32
Cowan, W.	Bankhead	4	15-11-98
Cowley, Robert	Saunders	86	17- 7-44
Cox, John	Coleman	193	13- 7-12
Coxon, Thomas	Edmonton	89	27- 8-15
Crabb, S. A. B.	Lethbridge	38	28- 5-14
Craig, Andrew	Coalhurst	169	26- 7-34
Craig, James M. S.	Nordegg	413	1- 8-21
Craig, Robert T. S.	Nordegg	4	3- 8-40
Cranston, Michael	Clover Bar	218	11-11-12
Crawford, Andrew B.	Mountain Park	95	18- 7-47
Crawford, Charles	Edmonton	647	1- 8-27
Crawford, George	Frank	160	17-11-11
Crawford, George	Bellevue (duplicate)	365	26- 7-20
Crawford, Hugh	Lethbridge	266	13- 7-37
Crawford, James	Alexo	662	10- 9-27
Crawford, John	Beaver Mines	197	13- 7-12
Crawford, John C.	Bellevue	84	17- 7-44
Crawford, John S.	Alix	333	7- 9-38
Crawford, Robert	Lethbridge	619	21-10-25
Crawford, William	Lethbridge	8	6- 3-14
Crichton, Robert	Hillcrest	516	17- 8-23
Crockett, Levi A.	Hillcrest	131	22-12-10
Crozier, John E.	Midlandville	128	26- 8-33
Cumberford, Granger	Drumheller	289	8- 6-38
Cumberford, James	Drumheller	672	19- 7-28
Currie, Campbell	East Coulee	81	12- 7-47
Currie, Robert	Canmore	715	7- 6-29
Curry, John	Passburg	439	3-11-21
Curry, John	Hillcrest	368	22- 6-39
D'Altroy, Arthur C.	Commerce	6	1-12-13
Dalziel, William	Clover Bar	14	26- 7-31
Dambois, Charles E.	Bellevue	124	13- 7-48
D'Amico, George	Nordegg	486	1- 8-22
Damico, Zupito	Nordegg	8	3- 8-40
Darbyshire, Harry	Drumheller	183	18-12-34
Davey, George	Michel, B.C.	418	1- 8-21
Davidson, Albert M.	Evansburg	517	17- 8-23
Davidson, David	Edmonton	170	17-11-11
Davidson, Robert M.	Coleman	33	26- 7-31
Davies, E. M.	Wayne	95	25- 5-33
Davies, Ernest	Big Prairie	326	26- 8-38
Davies, G. C.	Lundbreck	114	3- 7-33
Davies, James	East Coulee	784	10- 6-30
Davies, J.	Coleman	265	26- 6-19
Davies, John C. H.	Coalmont, B.C.	492	1- 9-22
Davies, Richard	Luscar	42	26- 7-31
Davies, T.	Frank	49	18- 4-05
Davies, T. O.	Coleman	109	2- 6-10
Davies, W. E.	Hillcrest	16	26- 7-31
*Davies, W. J.	Edmonton	16	25-11-03
Davis, D. B.	Midlandvale	730	10- 6-29
Davis, Fred M.	Big Valley	619	28- 9-25
Davis, William	Coalspur	192	7-11-17
Dawes, Edmund	Drumheller	222	8- 6-18
Dawson, Glen	Brule	573	24- 7-24
Dean, William	Bankhead	20	20- 3-14
DeBarnardo, Frank J.	Drumheller	131	13- 7-48
DeCecco, Antonio	Coleman	119	13- 7-48
Deere, Gladstone E.	Blackstone	449	21- 7-22
Denholm, James	Mercoal	17	26- 7-31
Dennis, Frederick W.	Lethbridge	3	28-11-13
Desson, Horace E.	Rosedale	526	17- 8-23
Deugan, Frederick H.	Coleman	97	18- 7-47
Devernichuk, Mike	Lethbridge	8	16- 7-45
Devonshire, G.	Canmore	31	23- 5-07
Devoy, William	Hardieville	9	6- 3-14
Diamond, Omer	Blairmore	106	18- 7-47
Dieter, Walter J.	Sheerness	397	1- 8-21
*Digman, John H.	Royal View	198	13- 7-12
Dinsdale, Wm.	East Coulee	61	2- 6-32
Dixon, John O.	High River	698	16- 8-28
Dickson, S.	Lille	18	3- 1-07
Dixon, W. B.	High River	179	10- 9-34
Dobson, Roy C.	Lethbridge	2	3- 8-40
Dolanz, Iggie	Three Hills	361	22- 6-39
Dombroski, Theodore S.	Mercoal	85	18- 7-47
Donaldson, M. W.	Shaughnessy	69	9- 9-46
Donaldson, Thomas	Shaughnessy	64	25- 6-32

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Donnachie, John	Brule	630	26- 7-26
Doodson, Robert	Coal Creek, B.C.	177	17-11-11
Dotto, August J.	Cadomin	132	13- 7-48
Douglas, D. B.	Edmonton	129	26- 7-16
Douglas, Horace L.	Cadomin	83	18- 7-47
Douglas, Peter S. Jr.	Cadomin	233	22- 6-36
*Downs, T.	Canmore	24	25-11-03
*Downs, T.	Canmore (duplicate)	6	6-10-06
Draper, Robert	Cochrane	214	1-11-12
Driega, William	Cadomin	61	20- 7-43
Driscoll, L.	Evansburg	560	24- 7-24
Dropko, Wm.	Midlandvale	208	26- 7-35
Dryburgh, W. W.	Nordeg	356	26- 7-20
Dudley, John T.	Hillcrest	493	1- 9-22
Duggan, E. J.	Taber	41	18- 1-08
Duggan, John	Edmonton	97	12-10-15
Duggan, R. G.	Taber	27	26- 4-04
Dunbar, Edgar J.	Taber	27	26- 4-04
Dunbar, Robert	Hinton Trail	272	16- 8-37
Duncan, David R.	Alexo	24	15- 7-41
Duncan, Ninian S.	Cochrane	211	31-10-12
Dunlop, Hugh	Coleman	321	26- 7-20
Dunnigan, Edward	Bankhead	216	1- 6-18
Dunn, Charles F.	Drumheller	604	25- 7-25
Dunn, Robert A.	Willow Creek	322	8- 8-38
Dunn, Samuel	Taber	441	15-12-21
Dunn, W. P.	Evansburg	347	26- 7-20
Dupen, Albert E.	Lethbridge	616	14- 8-25
Dupen, Thomas	Edmonton	275	26- 6-19
Duquesne, George G.	Champion	306	22- 6-38
Duthie, Alexander F.	Pocahontas	184	28-11-11
Dutka, Joseph	Canmore	794	3- 7-30
Dutton, Alfred	Mountain Park	121	29- 7-33
Dutton, Joseph A.	Edmonton	623	26- 7-26
Dziedzic, Joseph C.	Blairmore	94	18- 7-47
Eccleston, J. W.	Mountain Park	330	26- 7-20
Eccleston, Richard	Bellevue	243	26- 6-19
Eccleston, Thomas	Mountain Park	475	31- 7-22
*Eccleston, W.	Michel, B.C.	20	3- 1-07
Eckert, William	Sedalia	539	17- 8-23
Edwards, John	Cadomin	32	26- 7-31
Edwards, O. E.	Cadomin	115	3- 7-33
Elkes, F. W.	Newcastle	724	7- 6-29
Elliott, James	Drumheller	277	26-10-37
Ellison, Fred	Drumheller	75	14- 7-44
Emblau, Archie A.	Mountain Park	268	13- 7-37
Embree, Merton B.	Bankhead	239	31- 7-13
Emmerson, Chas. A.	Bellevue	5	3- 8-40
*Eno, John W.	Drumheller	223	8- 6-18
Entwistle, Albert V.	Kipp	471	31- 7-22
Eskeland, Arthur	Champion	21	12- 7-41
Evans, Angelo P.	Blairmore	42	18- 7-46
Evans, Charles	Hillcrest	327	26- 7-20
Evans, David E.	Luscar	46	26- 7-31
Evans, D.	Frank	83	3- 9-09
Evans, Evan	Taber	362	22- 6-39
Evans, Gwilym	Blairmore	308	26- 7-20
Evans, Howell	Mountain Park	750	5- 9-29
Evans, Hugh	Lethbridge	156	12- 7-11
Evans, H.	Taber	94	2-12-09
Evans, I. L.	Blairmore	196	18- 6-35
Evans, James D.	Drumheller	383	1- 8-21
Evans, Joseph H.	Midlandvale	72	15-10-46
Evans, Llewellyn	Coleman	152	7- 7-17
Evans, Nathaniel	Passburg	54	27-11-14
Evans, Thos. L.	Calgary	367	1-11-20
Evans, Thomas O.	Blairmore	244	26- 6-19
Evans, William	Drumheller	360	26- 7-20
Ewing, Fred	Donalda	97	10- 6-33
Ewing, John J.	Rosedale	93	18- 7-47
Excoffon, Eugene	Bellevue	155	7- 7-17
Fairhurst, H.	Lethbridge	39	23-12-04
Farmer, Eli	Drumheller	189	10- 6-35
Farmer, James	Drumheller	176	27- 8-34
Farmer, John T.	Drinnan	80	17- 7-44
Farnworth, George	Nordeg	30	25- 7-41
Fawcett, Elmer S.	Cardiff	150	9- 6-34
Ferguson, C. J.	Canmore	4	20-12-05
Ferguson, John	Commerce	34	23- 5-14
Ferguson, Joseph	Cadomin	70	30- 7-46
Ferryman, Henry	Corbin, B.C.	447	16- 6-22
Finkbiner, Henry	Scapa	30	26- 7-31
Fisher, Ernest	Bellevue	256	26- 6-19
Fisher, Harry	Hillcrest	338	26- 7-20
Fisher, James	Bellevue	194	3- 4-18

ANNUAL REPORT, 1948

141

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Fisher, John M.	Chin	190	10- 6-35
Fisher, Samuel	Passburg	169	17-11-11
Fisher, Samuel	Drumheller	139	26- 1-34
Fisher, Walter E.	Nordegg	122	13- 7-48
Fisher, William J.	Bellevue	186	13- 7-17
Fishwick, Thomas	Mountain Park	98	12-10-15
Fiske, G. E.	Edmonton	88	27-11-09
Fleming, Nelson	Coleman	550	1-11-22
Flynn, Thomas E.	Coleman	306	26- 7-20
Folden, Irvine A.	East Coulee	323	9- 8-38
Fontana, B. J.	Coleman	57	20- 7-43
Ford, Allen	Burmis	183	28-11-11
Ford, George C.	Drumheller	310	26- 7-20
Forshaw, Richard	East Coulee	138	26- 1-34
Forsyth, John	Lethbridge	54	1- 7-43
Foster, Cyril E.	Rocky Mountain House	60	2- 6-32
Foster, James	Lethbridge	174	17- 7-17
Foster, Richard	Edmonton	502	29-12-22
Foster, William	Pocahontas	31	28- 4-14
Fourneau, Jean F.	Bellevue	396	1- 8-21
Fowers, C. W.	Canmore	50	29- 5-08
Fox, A.	Taber	55	8- 1-09
Fox, A. A.	Canmore	808	29-10-30
Fox, Alfred Jr.	Carbon	334	19- 9-38
Fox, Benjamin	Carbon	297	11- 6-38
Foye, Edward B.	Delia	93	1-11-32
France, Harry	Nordegg	288	8-10-19
France, Henry A.	Coleman	19	16- 7-45
France, James	Nordegg	24	18- 7-45
Fraser, Alec	Carmanagay	274	26- 6-19
Fraser, James	Coleman	8	3- 1-07
Fraser, James	Big Valley (duplicate)	286	25- 8-19
Fraser, James B.	Coleman	32	25- 7-41
Fraser, Wm. B. Jr.	Coleman	350	8- 6-39
Fregren, Eric	Mercoal	280	11- 2-38
Fridel, Stephen	Barrhead	63	25- 6-32
Fry, Nicholas	Donalda	752	5- 9-29
Fudge, George H.	Cardiff	311	26- 7-20
Fulton, James	Champion	652	12- 8-27
Fyfe, Walter H.	Lethbridge	79	19- 8-15
Galbraith, A. G.	Coalhurst	460	31- 7-22
Galezna, Peter L.	Bittern Lake	113	3- 7-33
Gallagher, John	Rosedale	760	4- 6-30
Galvon, Joseph J.	Blairmore	21	16- 7-45
Gammie, John S.	Drumheller	226	8- 6-18
Garbett, Richard	Michel, B.C.	180	23-11-11
Gardner, H. H.	Coleman	135	31-10-33
Garner, E. Denison	Canmore	222	3- 6-36
Garrett, John	Lille	147	4- 7-11
*Gates, H.	Coleman	26	26- 4-04
Gatiss, R.	Long Coulee	85	25-11-09
Gavelin, Fred	Blairmore	519	17- 8-23
George, Peter	Three Hills	386	25- 7-39
Gerla, Bernard J.	Lethbridge	72	14- 7-44
Gibney, Frank	Grande Prairie	260	23- 6-37
Gibson, George	Blairmore	67	9-10-43
Gibson, Henry	Edmonton	349	26- 7-20
Gibson, James	Willow Creek	75	25- 6-32
Gibson, Joseph C.	Diamond City	587	24- 1-25
Gibson, Thomas P.	Midlandvale	663	16- 9-27
Gibson, William	Edmonton	370	26- 7-20
Gidman, J. H.	Taber	348	26- 7-20
Giffen, H. R.	Coalfields	19	26- 4-04
*Gilday, Michael E.	Drumheller	63	11-12-14
Gill, Peter	Thorsby	352	8- 6-39
Gillespie, John C.	Drumheller	132	3- 8-16
Gillespie, John M.	Coleman	111	2- 6-10
Gilliland, William	Strathcona	123	8-11-10
Gilmour, John	Cadomin	605	25- 7-25
Gilmour, Peter	Midlandvale	363	26- 7-20
Ginther, Patrick J.	Saunders	133	13- 7-48
Gitzel, Edward S.	Luscar	115	13- 7-48
Givens, John	Bankhead	158	10- 7-17
Gladwin, J.	Edmonton	97	20-12-09
Gladwin, Lewis C.	Carstairs	19	11- 7-41
Goldie, William	Lethbridge	24	1- 4-14
Goodrick, William L.	Commerce	168	17- 7-17
Goods, Peter	Drumheller	39	17- 7-42
Goodwin, Albert E.	Bellevue	43	26- 7-31
Goodwin, Andrew	Bellevue	187	13- 8-17
Goodwin, G. W.	Bellevue	320	26- 7-20
Goodwin, Watts	Bellevue	408	1- 8-21
Goodwin, William	Bellevue	766	4- 6-30
Gordon, David L.	Drumheller	636	6- 8-26
Gordon, Thomas	Clover Bar	248	26- 6-19

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Gorton, James	Hillcrest	203	22- 7-12
Gosney, Fred	Cadomin	76	14- 7-44
Gosney, Fred W.	Mercoal	58	23- 7-46
Gosney, Fred W.	Mercoal (duplicate)	76	22-10-46
Gosney, John A.	Cadomin	112	13- 7-48
Gotheridge, C. F.	Round Hill	370	22- 6-39
Gotheridge, W. V.	Round Hill	26	26- 7-31
Graham, Robert	Clover Bar	50	27-11-14
*Graham, William	Coleman	19	26- 7-31
Grant, Alexander	Hillcrest	298	13- 6-38
Grant, Donald A.	Hillcrest	242	26- 6-19
Grant, Ferguson	Hillcrest	113	13- 7-28
Grant, Robert	Lethbridge	10	10- 3-14
Grant, Robert H.	Camrose	2	23-10-13
*Graver, G.	East Coulee	201	4- 7-35
Green, Henry V.	Halkirk	1	1-11-13
Green, Henry V.	Halkirk (duplicate)	291	15-11-19
Green, Walter	East Coulee	328	29- 8-38
Green, William	Luscar	775	10- 6-30
Green, Wm. J.	Dinant	343	13- 2-39
Greenhalgh, Richard M.	Coleman	154	7- 7-17
Gregory, John B.	Passburg	128	17-12-10
Gregory, William W.	Mountain Park	496	6- 9-22
Greig, Norman	Dinant	293	10- 6-38
*Grenda, Stanley	Turin	198	28- 6-35
Gresl, John	Bellevue	87	17- 7-44
Griffiths, Edward	Foothills	367	22- 6-39
Griffiths, E. H.	Canmore	33	5-12-04
Griffiths, John T.	Lille	168	17-11-11
Griffiths, Owen	Foothills	73	15-10-46
Griffiths, T. J.	Lille	77	18- 6-09
Groombridge, Thos.	Edberg	312	4- 7-38
Grubisich, Walter	Hinton	375	4- 7-39
Guiney, John C.	Rosebud	79	25- 6-32
Guisto, G.	Beazer	6	13- 7-31
Gwilliam, David J. M.	Hillcrest	130	22-12-10
Hadfield, John	Canmore	23	21- 6-03
Hadfield, John	Coleman (duplicate)	21	4- 4-07
Hadfield, William A.	Coleman	567	16- 7-24
*Hadwell, A. J.	Bellevue	717	7- 6-29
Hadwell, Thomas C.	Blairmore	27	26- 7-31
Hagblad, Theodore	Lethbridge	602	25- 7-25
Haines, Thomas	Coleman	37	23-12-04
Halbert, Benjamin G.	Trochu	151	9- 6-34
Halbert, David	Trochu	723	7- 6-29
Halbert, Robert	Trochu	71	25- 6-32
Halbert, Robert A.	Trochu	217	23- 9-35
Hall, Ernest	Wayne	438	10-10-21
Hall, James	Nordeg	402	1- 8-21
Hall, Robert	Canmore	703	24-11-28
Halliday, George W.	Champion	155	8- 7-11
Halliday, George W.	Commerce	248	31- 7-13
Hallworth, Albert	Bellevue	52	12- 6-08
Hamilton, Charles	Edmonton	36	10- 1-08
Hamilton, Duncan C.	Drumheller	320	28- 7-38
Hamilton, John	Lethbridge	120	10- 7-16
Hamilton, John M.	Hanna	657	14- 8-27
Hamilton, Joseph J.	Lethbridge	434	29- 2-21
Hamilton, Thomas M.	Blairmore	393	1- 8-21
Hanna, Thomas	Mercoal	269	21- 7-37
Hansen, James	Canmore	1	30- 5-06
Hansen, Knud	Aerial	644	1- 8-27
Hanson, Andrew	Three Hills	187	10- 6-35
Hargreaves, George	Lethbridge	65	11-12-14
Harmison, William	Mountain Park	41	27- 8-14
Harpham, Henry A.	Clover Bar	37	27- 7-45
Harries, Henry C.	Coleman	209	26-10-12
Harries, John	Wayne	568	16- 7-24
Harris, Edward V.	Rosedale	52	29- 7-42
Harris, Rupert S.	Edmonton	513	17- 8-23
Harrison, Thomas	Bankhead	29	11- 7-04
Harrop, Wm.	Robb	2	20- 1-31
Hart, Daniel	Wayne	566	26- 6-24
Hart, James J.	Coleman	692	16- 8-28
Hartley, William	Bankhead	110	2- 6-10
Harvie, John	Taber	68	1- 2-09
Harvie, Robert	Lethbridge	40	23-12-04
Hastings, Andrew P.	Lethbridge	176	10- 7-17
Hawkins, E. L.	Nordeg	339	26- 7-20
Hawkins, Harold	Drumheller	541	1- 9-23
Hayes, Robert	Lundbreck	60	22- 1-09
Haynes, Arthur	Midlandvale	65	26- 7-46
Head, James	Taber	209	1- 6-18
Heap, Robert	Lundbreck	206	10- 8-12
Heathcote, Joseph	Edmonton	32	28- 4-14

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Hedges, Richard	Beverly	239	29- 8-18
Heidel, Herbert G.	Priddis	401	12-10-39
Henderson, Andrew	Wayne	655	14- 8-27
Henderson, Austin J.	Luscar	79	17- 7-44
Henderson, James	Reid Hill	134	30-12-10
Henderson, Samuel	Reid Hill	136	30-12-10
Henderson, W.	Minett	61	26- 1-09
Henry, Wm. B.	Newcastle	339	9-11-38
Herman, John R.	Mountain Park	33	25- 7-45
Hetherington, Joseph W.	Carbon	609	25- 7-25
Hetherington, R. Jr.	Wayne	420	1- 8-21
Hetherington, W. B.	Calgary	340	9-11-38
Heyworth, Ernest S.	Dinant	763	4- 6-30
Hibbert, George	Three Hills	28	15- 7-41
Hibbert, William T.	Coleman	622	11- 5-26
Higgins, Alfred	Bankhead	25	15- 5-07
Higgins, John	Bellevue	201	18- 4-18
Higney, John	Coalhurst	245	26- 6-19
Hilbert, Waddington	Mercoal	240	13-10-36
Hill, Ernest	Coleman	144	5- 6-34
Hill, James	Canmore	114	3- 6-10
Hillary, Harry	Bellevue	736	17- 6-29
*Hillary, John	Rosedale	258	26- 6-19
Hillary, Joseph	Drumheller	391	1- 8-21
Hillary, Michael	Midlandvale	665	26-10-27
Hilling, James	Coleman	43	23- 1-08
Hodgkinson, John A.	Edmonton	205	1- 6-18
Hogg, Charles M.	Lethbridge	424	1- 8-21
Hogg, John	Foothills	22	13- 7-31
*Holden, James	Bankhead	13	3- 1-07
Holland, Thomas	Lethbridge	161	10- 7-17
Holliday, Thomas	Drumheller	247	1- 6-37
Holliday, William	Drumheller	596	20- 7-25
Holmes, G. E.	Fernie, B.C.	15	1903
Holmes, Robert	Coleman	141	11-11-16
Holowatiuk, William	Newcastle	25	18- 7-45
Holton, Joseph	Magrath	140	5- 4-34
Honeyman, Maurice R.	Robb	369	22- 6-39
Hood, Andrew	Frank	20	21- 6-03
Hook, Alfred J.	Halkirk	78	25- 7-32
Hooks, Albert	Drumheller	807	29-10-30
Hooten, Robert	Edmonton	505	15- 2-23
Hooks, John W.	Calgary	210	1- 6-18
Hopkins, Arthur J.	Foothills	761	4- 6-30
Hopkins, John T.	Coleman	259	26- 6-19
Hopkins, William	Coleman	93	1- 9-15
Hopkins, William H.	Drumheller	451	31- 7-22
Horkulak, Andrew	Thorsby	25	15- 7-41
Horne, James	Mercoal	576	1- 8-24
*Horne, Thos. Jr.	Luscar	687	1- 8-28
Horner, Charles	Edmonton	440	16-12-21
Horz, E. Louis C. J.	Evansburg	308	22- 6-38
Hotte, Leonard	Coleman	2	16- 7-45
Howells, David T.	Lethbridge	27	15- 7-41
Howells, Edward W.	Mercoal	52	6- 1-32
Howells, John	Elcan	126	19- 7-16
Hronek, Ben	Halkirk	614	1- 8-25
Hucik, Louis	Blairmore	15	16- 7-45
Huddart, Matthew	Bellevue	102	18-11-15
Hudyma, John	Pocahontas	207	1- 6-18
Huff, L. E.	Lethbridge	325	26- 7-20
Hughes, Angus	Coleman	572	24- 7-24
Hughes, Harry	Natal, B.C.	506	9- 3-23
Hughes, William A.	Luscar	54	19- 7-46
Hughes, William R.	Lille	181	23-11-11
Hulbert, H. A.	Coleman	747	23- 7-29
*Hulme, Chas.	Hillcrest	124	17-12-10
Hulme, James	Carbon	564	26- 2-24
Humble, Stephen T.	Bellevue	29	23- 5-07
*Hunter, Alexander B.	Coleman	207	10- 8-12
Hunter, James	Edmonton	276	26- 6-19
Hunter, John T.	Garden Plain	148	7- 7-17
Hunter, Thomas	Edmonton	805	22-10-30
Hutchinson, George E.	Brookdale	404	1- 8-21
Hutchinson, J. J.	Lovettville	332	26- 7-20
Hutchinson, Peter	Frank	202	22- 7-12
Hutton, David T.	Bellevue	241	31- 7-13
Hutton, George	Bellevue	186	2-12-11
Hutton, Hugh	Bellevue	60	5-12-14
Hutton, Isaac	Bellevue	99	27-12-09
Hutton, John	Bellevue	135	30-12-10
Hutton, Walter C.	Coalhurst	756	18- 2-30
Hyde, Isaac	Drumheller	134	15- 9-16
Hynd, William	Elcan	52	27-11-14
Instone, Henry	Hillcrest	197	3- 4-18

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Inverarity, William	Rosebud	382	4- 7-39
Ironmonger, John	Hillcrest	145	3- 7-11
Ironmonger, William	Hillcrest	487	1- 8-22
Ivan, Mike	East Coulee	199	28- 6-35
Jackson, John	Bellevue	246	31- 7-13
Jackson, Harold W.	Forestburg	51	26- 7-42
Jackson, Thomas	Coleman	495	1- 9-22
James, Albert J.	Forestburg	25	26- 7-31
James, Alfred	Drumheller	182	12-10-34
James, Henry	Coleman	53	14- 7-08
James, Hiram	Heisler	158	16- 6-34
James, Isaac A.	Coleman	252	26- 6-19
James, Isaiah	Rumsey	801	18-10-30
James, John	Pocahontas	28	21- 4-14
James, John C.	Mountain Park	7	3- 8-40
James, Joseph	Frank	25	26- 4-04
James, Joseph	Cadomin	248	3- 6-37
James, Thomas	Saunders	340	26- 7-20
James, William	Pocahontas	234	31- 7-13
James, William	Mountain Park	14	6-11-40
Jinks, William E.	Beverly	180	25- 7-17
Johnson, Albert	Coleman	88	26- 8-15
Johnson, Alexander J.	Ardley	68	25- 6-32
Johnson, Chris	Carbon	561	28-12-23
Johnson, Martin R.	Rumsey	234	22- 6-36
*Johnson, Moses F.	Alix	804	18-10-30
Johnson, Oscar G. F.	Wayne	134	13- 7-48
Johnson, Thomas	Drumheller	696	16- 8-28
Johnstone, Alexander	Clover Bar	329	26- 7-20
Jones, Arthur	Coleman	547	15- 8-23
Jones, Daniel	Dinant	474	31- 7-22
Jones, Daniel H.	Levetville	99	10-12-15
Jones, David	Edmonton	69	1- 2-09
Jones, David	Taber	55	27-11-14
Jones, David	Wayne	133	25- 9-33
Jones, David I.	Wayne	578	11- 8-24
Jones, Douglas W.	Pincher Creek	49	27- 9-31
Jones, E. W.	Drumheller	127	22- 8-33
Jones, Edward B.	Hillcrest	469	31- 7-22
Jones, Elias	Coleman	680	1- 8-28
Jones, Erskine	Coalfields	47	18- 4-05
Jones, Evan	Coalfields	12	26- 4-04
Jones, Evan J.	Calgary	144	3- 7-17
Jones, Griffith	Edmonton	375	17- 6-21
*Jones, I.	Edmonton	589	3- 3-25
Jones, Jack	Cardiff	127	17-12-10
Jones, Jack	Luscar	771	4- 6-30
Jones, John H.	Taber	214	1- 6-18
Jones, J. R. B.	Edmonton	301	22- 6-38
Jones, Peter	Lethbridge	195	13- 7-12
Jones, Richard	Nordeg	289	8-10-19
Jones, Richard M.	Wayne	491	1- 9-22
Jones, Samuel A.	Lethbridge	17	26- 4-01
Jones, William	Rosedale	74	14- 7-44
Jones, Wm. J.	Rosalind	74	25- 6-32
Jones, Wyndham	Coleman	246	1- 6-37
Jones, W. J.	Newcastle	100	10- 6-33
Jordan, William	Taber	220	20-11-12
Jordon, Benjamin	Calgary	463	31- 7-22
Joyce, Michael	Bickerdike	224	25-11-12
Jubb, J. W.	Drumheller	708	1- 5-29
Kane, Frank	Hinton	344	3- 4-39
Kay, Arthur	Coleman	501	1-11-22
Kay, Walter S.	Drumheller	754	12-11-29
Kay, William	Drumheller	53	26- 2-32
Kaye, Herschal	Maycroft	191	4- 1-12
Keef, James	Mercoal	26	18- 7-45
Kehl, Isodore	Nordeg	359	26- 7-20
Keith, Albert	East Coulee	250	11- 6-37
Keith, Roy	Willow Creek	254	11- 6-37
Kelly, Patrick	Edmonton	147	7- 7-17
Kemp, David	Beaver Mines	201	22- 7-12
Kenakin, Peter	Rosedale	63	27- 7-46
Kendrick, Samuel O.	Coalhurst	597	20- 7-25
Kennedy, Joseph	Willow Creek	799	10- 9-30
Kennedy, William	Mountain Park	606	25- 7-25
Keynon, William	Mountain Park	44	28- 9-14
Keough, Frank J.	Drumheller	134	30- 9-33
Kergan, Robert G.	Lethbridge	610	25- 7-25
Kerr, Fraser	Langford Park	96	18- 7-47
Kerr, Robert	Lundbreck	76	17- 6-09
Kerr, Robert G.	Blairmore	764	4- 6-30
Kerr, Robert T.	Passburg	75	17- 6-09
Kerr, W. R.	Coleman	89	29-11-09
Kerrison, Thomas W.	Eyremore	163	10- 7-17

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Kiernan, Patrick	Robb	3	20- 2-31
Kinakin, Peter	Coleman	46	18- 7-46
King, John J. J.	Nordegg	221	8- 6-18
King, Joseph	Coalhurst	726	7- 6-29
Kinnear, John A.	Coleman	64	22- 7-43
*Kirkeberg, Henry S.	Michel, B.C.	87	27-11-09
Kirkeby, B. A.	Craigmyle	101	10- 6-33
Kirkham, Thomas	Sheerness	284	26- 6-19
Klatt, Rudolph E.	Evansburg	544	1- 9-23
Klejko, Stephen	Coleman	213	1- 6-18
Knight, William	Carbondale	261	23- 6-37
Knox, Joseph	Hardieville	119	10- 7-16
Knudson, Arthur	Canmore	586	4-12-24
Koehler, William A.	Wabamun	98	18- 7-47
Koentges, John	Blairmore	182	25- 7-17
Koentges, Joseph	Bellevue	770	4- 6-30
Kormendy, Alexander	Rosedale	99	18- 8-44
Kormendy, Joe	Rosedale	103	25-10-44
Koshman, Alexander T.	Shaughnessy	372	22- 6-39
Kovacs, John	Shaughnessy	50	18- 7-46
Kowal, Alex.	Canmore	790	14- 6-30
Kozmeniuk, Steve	East Coulee	378	4- 7-39
Krause, Herman F.	Lethbridge	407	1- 8-21
Krossa, O.	Shaughnessy	181	9-10-34
Krupper, August	Drumheller	711	7- 6-29
Kryskow, Michael	Carbondale	20	12- 7-41
Krywolt, Edward	Coleman	51	18- 7-46
Kubica, Mike P.	Coleman	12	16- 7-45
Kubicek, Fred	Rosedale	135	13- 7-48
Kubin, John J.	Coleman	42	17- 7-42
Kummer, William	High River	263	23- 6-37
Kurp, Benjamin C.	Alix	143	5- 6-34
Kurp, Thomas J.	Delburne	172	13- 8-34
Kusnir, John	Cambria	81	17- 7-44
Kyle, Daniel C.	Hillcrest	185	25- 7-17
Laight, Jonas	Medicine Hat	233	3- 5-13
Laing, W. R.	Cadomin	774	10- 6-30
Lammie, Robert	Beverly	694	16- 8-28
Lamond, David	Frank	109	10- 7-16
Lamont, David	Frank	98	24-12-09
Larson, Tony	Edberg	33	25- 7-41
Lavis, George	Drumheller	585	14-11-24
Lawrence, Ernest G.	Bellevue	59	23- 8-46
Lawrence, John	Drumheller	294	1-12-19
Lazzarotto, Peter	Picture Butte	682	1- 8-28
Learmonth, A. J.	Lundbreck	42	23- 1-08
Leblanc, Emile	Coleman	153	8- 7-11
Leckie, Samuel	Rosedale	407	26- 1-40
Lecuyer, Glenn	Midlandvale	562	31-12-23
Lee, Charles	Mountain Park	116	13- 7-48
Lee, Walter J.	Nordegg	269	26- 6-19
Le Gear, Max	Forestburg	100	18- 8-44
Lehmann, Max	Wayne	742	5- 7-29
Leitch, Andrew S.	Edmonton	57	20- 7-46
Leitch, Thomas	Drumheller	660	1- 9-27
Leivers, Albert	Wayne	12	13- 7-31
Leonard, Phillip	Nordegg	479	1- 8-22
Lesson, Steve	Bellevue	354	8- 6-39
Letcher, John J.	Hillcrest	149	4- 7-11
Letcher, Joseph H.	Lovettville	100	12-10-15
Letcher, R. C.	Hillcrest	795	12- 7-30
Levesque, C.	Aerial	82	17- 7-44
Lewis, Fred	Mountain Park	227	22- 6-36
Lewis, Hanbury	Calgary	364	1-11-20
Lewis, John W.	Mountain Park	580	25- 9-24
Lewis, Thomas	Hardieville	131	27- 7-16
Lidgett, James	Entwistle	125	13- 7-48
Lidgett, Joseph L.	Mercoal	60	20- 7-43
Lindsay, James	Coalhurst	273	26- 6-19
Lindsay, John	Coalhurst	272	26- 6-19
Lister, Arthur L.	Cadomin	232	22- 6-36
Littler, John	Michel, B.C.	190	30-12-11
Littler, Matthew	Michel, B.C.	226	7-12-12
Littler, Robert	Michel, B.C.	166	17-11-11
*Livingstone, Jas. C.	Lethbridge	18	26- 4-04
*Livingstone, Robert D.	Lethbridge	7	21-11-98
Livingstone, R. D.	Lethbridge	39	16-10-45
Lloyd, James H.	Blairmore	192	10- 6-35
Loftus, Edward	Drumheller	111	10- 7-16
Logan, John T.	Drumheller	190	6- 9-17
Lohmaier, Peter	Sheerness	238	15- 7-18
Longworth, John	Bellevue	634	30- 7-26
Longworth, Thomas	Lethbridge	146	5- 7-17
Lonsbury, W. P.	Coleman	191	10- 6-35
Loten, Henry V.	Newcastle	186	20- 2-35

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Lote, Francis	Hillcrest	195	3- 4-18
Louhella, Sula A.	Canmore	295	10- 6-38
Loula, William	Bellevue	374	22- 6-39
Love, William	Edmonton	86	27-11-09
Low, James A.	Coleman	147	5- 6-34
Lowry, William J.	Drumheller	641	22- 9-26
Loxton, George	Fernie, B.C.	176	17-11-11
Loxton, John	Fernie, B.C.	51	27-11-14
*Ludbrook Ellis E.	Bickerdike	237	31- 7-13
Ludwig, Peter	Rosedale	136	13- 7-48
Luini, Louis	Hillcrest	376	4- 7-39
Lund, Fred	Blairmore	767	4- 6-30
Lynass, James C.	Delburne	310	22- 6-38
Lynass, John	Delburne	267	13- 7-37
Lynass, John	Delburne (duplicate)	108	8- 9-48
Lynch, Stewart	Canmore	26	15- 4-14
Lyons, Frank Q.	Blairmore	103	18- 7-47
Lytkowski, William P.	Canmore	503	30-12-22
Machin, J. C.	Strathcona	46	26- 2-08
Mackie, James	Big Valley	608	25- 7-25
Mackie, John	Corbin, B.C.	221	25-11-12
Mackie, William	Drumheller	645	1- 8-27
Macri, D.	Brule	518	17- 8-23
Maddison, John	Hillcrest	354	26- 7-20
Maddison, Wm.	Mountain Park	136	25- 9-16
Madsen, S.	Luscar	39	26- 7-31
Madsen, Soren	Mountain Park	406	30-11-39
Mahoney, Patrick	Luscar	137	13- 7-48
Mackin, John W.	Coleman	240	31- 7-13
*Mallabone, Ernest	Canmore	105	7- 7-16
Marasco, Frank	Nordegg	23	15- 7-41
March, John	Edmonton	56	20- 7-46
Marconi, Gordon	Coleman	22	12- 7-41
Marconi, John	Coleman	363	22- 6-39
Marsh, Ernest	Taber	61	5-12-14
Marsh, John	Coalhurst	51	6- 1-32
Marsh, John H.	Taber	75	20- 3-15
Marsh, Walter	Kellog, Idaho	538	17- 8-23
Marsh, Walter	Coleman	84	24- 8-32
Marsh, Walter W.	Delburne	279	12-11-37
Marsh, William	Drumheller	230	8- 6-18
Marsh, Wm. J.	Midlandvale	776	10- 6-30
Marshall, Albert C.	Delia	365	22- 6-39
Marshall, Chas. H.	Leduc	256	11- 6-37
Marshall, Robert	Leduc	255	11- 6-37
Martin, Bert W.	Alexo	385	25- 1-39
Martin, David	Blairmore	527	17- 8-23
*Martin, Henry Sr.	Saunders	549	15- 9-23
*Martin, Richard	Taber	135	25- 9-16
Martin, William H.	Drumheller	69	28- 1-15
Martin, William H.	Rosevear	53	4-12-42
Mason, Samuel	Taber	187	6-12-11
Massey, Harry	Michel, B.C.	172	17-11-11
Mather, John	Bickerdike	45	26-10-14
Mather, John H.	Namoo	13	29-10-40
Mather, Stanley	East Coulee	78	15- 7-44
Mather, Thomas	Taber	96	8-12-09
Matheson, James P.	Rosedale	138	13- 7-48
Mathewson, James	Nevis	236	22- 6-18
Mathieson, David	Edmonton	789	14- 6-30
Mattson, Allie E.	Bellevue	5	16- 7-45
Mattson, Matt	Frank	34	5-12-04
May, John	Beverly	786	14- 6-30
Mayon, Daniel	Drumheller	707	20- 3-29
Mazur, Walter J.	Mercoal	139	13- 7-48
Meek, Fred G.	Heisler	737	17- 6-29
Melling, Joseph	Evansburg	335	26- 7-20
Melling, Peter	Coalhurst	208	26-10-12
Melson, Philip	East Coulee	359	8- 6-39
Melvin, J. L.	Lethbridge	371	28-12-20
Menzies, Wm.	Drumheller	212	10- 8-35
Merrington, Robert H.	Ryley	31	25- 7-41
Metcalf, Joseph W.	Coalhurst	498	1-11-22
Metcalf, Joseph W.	Drumheller	666	16- 1-28
Meyers, August	Drumheller	406	1- 8-21
Michayluck, John G.	Frank	184	25- 7-17
Millar, C. C.	Bellevue	714	7- 6-29
Millar, Peter P.	Drumheller	127	26- 7-16
Millar, David	Mercoal	627	26- 7-26
Miller, David L.	Taber	114	10- 7-16
Miller, Douglas	Edmonton	236	4- 7-36
Miller, James	Aerial	266	26- 6-19
Miller, John R.	Aerial	293	20-11-19
Miller, Joseph	Stafford Village	14	10- 4-14
Miller, Joseph Jr.	Lethbridge	326	26- 7-20

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Miller, Walter	Bellevue	159	25- 8-11
Miller, William	Drumheller	535	17- 8-23
Mills, Jonathan J.	Rosalind	283	22- 4-38
Milnes, John	Bellevue	334	26- 7-20
Minue, Graydon B.	Nordegg	410	1- 8-21
Miskow, Michael J.	Canmore	284	7- 6-38
Mitchell, Archie	Calgary	412	1- 8-21
*Mitchell, Chas. G.	Pincher Creek	82	24- 8-32
Mitchell, David	Luscar	380	4- 7-39
Mitchell, Hugh J.	Foothills	569	24- 7-24
Mitchell, John	Evansburg	143	27- 2-17
Mitchell, J. M. P.	East Coulee	83	17- 7-44
Mitchell, Robert A.	Bellevue	10	4- 9-40
Mitchell, Thomas	Coleman	257	23- 6-37
Mitchell, Thomas	Luscar (duplicate)	106	16- 9-47
Mitchell, William	Dimsdale	174	27- 8-34
Mitchinson, Arthur	Donalda	88	23- 9-32
Mitchinson, Thomas	Donalda	18	11- 7-41
Molnar, Vendel S.	Hillcrest	23	17- 7-45
Molyneux, Thomas	Aerial	102	10- 6-33
Molzan, Henry	East Coulee	111	15- 6-33
Monkton, William	Rosedale	322	26- 7-20
Moore, James H.	Coleman	167	17-11-11
Moore, Thomas E.	Eyremore	56	11- 1-09
Moran, James Jr.	Edmonton	342	10-12-38
Morel, Marcel	Ghost Pine Creek	180	25- 9-34
Morel, Marcel E.	Ghost Pine Creek	78	29-10-46
Morgan, Ernest	Blairmore	15	13- 7-31
Morgan, Owen	Coleman	143	3- 7-11
Morgan, Robert M.	Coleman	160	10- 7-17
Morgan, William J.	Canmore	64	11-12-14
Morkwia, Victor Jr.	Canmore	285	7- 6-38
*Morris, David	Edmonton	45	24- 2-08
Morris, David	Bellevue	720	7- 6-29
Morris, John	Bellevue	30	20- 7-45
Morris, Robert L.	Coleman	294	10- 6-38
Morris, Robert S.	Aerial	745	12- 7-29
Morris, Wm.	Cadomin	744	12- 7-29
Morrison, Malcolm	Coleman	189	30-12-11
Morrison, Neil	Mercoal	26	15- 7-41
*Morse, Alfred T.	Drumheller	172	17- 7-17
Morse, William J.	Hanna	156	12- 6-34
Mossey, Robert	Frank	507	17- 5-23
Mossey, Thomas M.	Lethbridge	237	5- 7-18
Mossom, John	Drumheller	734	17- 6-29
Mottishaw, Walter R.	Bellevue	13	16- 7-45
Muir, Alexander	Hardieville	12	10- 3-14
Muir, Alexander	Coleman	593	20- 7-25
Muir, David	Lundbreck	151	8- 7-11
Muir, George	Edmonton	265	13- 7-37
Muir, James	Bankhead	57	5-12-14
Muir, James	Edmonton	137	28-12-33
Muir, Robert	Bankhead	21	23- 3-14
Muir, Thomas	Coalhurst	800	18-10-30
Mullinger, William H.	Three Hills	35	20- 8-41
Muncy, Howard C.	Foreman	693	16- 8-28
Munro, William K.	Lille	150	4- 7-11
Murray, David	Hillcrest	35	26- 5-14
Murray, John	Drumheller	325	15- 8-38
Murphy, Peter J. Jr.	Drumheller	325	15- 8-38
Musgrove, Henry B.	Canmore	674	19- 7-28
Musgrove, William	Canmore	9	23- 8-00
McAskil, Alexander	Drumheller	380	1- 8-21
Macaulay, John C.	Coalhurst	678	19- 7-28
MacDonald, Clyde P.	Bellevue	685	1- 8-28
MacDonald, George G.	Beverly	242	14- 1-37
MacDonald, Leslie M.	Bellevue	713	7- 6-29
MacDonald, William	Drumheller	431	29- 8-21
MacKay, Duncan	Mercoal	7	16- 7-45
McKay, William J. K.	Coalspur	240	28- 1-19
MacKenzie, John	East Coulee	299	13- 6-38
MacLeod, Lloyd	Coalhurst	725	7- 6-29
MacLeod, Roderick	Coleman	470	31- 7-22
MacNeil, James	Cadomin	537	17- 8-23
MacPherson, John M.	Coalhurst	257	26- 6-19
MacQuarrie, Hector	Drinnan	364	22- 6-39
MacAllister-Thompson, D. S. B.	Rosedale	735	17- 6-29
McAllister, David	Mountain Park	613	1- 8-25
McAndrew, John	Lovett	83	19- 8-15
McAndrew, John Jr.	Blairmore	769	4- 6-30
McAndrew, Robert	Clover Bar	81	19- 8-15
McAndrew, Robert	Clover Bar (duplicate)	196	3- 4-18
McColl, Alexander	Lethbridge	109	15- 6-33
*McCormack, A. D.	Castor	675	19- 7-28
McCubbrey, James	Drumheller	458	31- 7-22

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
McCulloch, Alex.	Lille	43	18- 4-05
McCulloch, Archibald	Coleman	349	8- 6-39
McCulloch, Johnston	Coleman	642	30- 7-26
McCutcheon, Jas. A.	Midlandvale	803	18-10-30
McDade, John	Drumheller	290	8-11-19
McDevitt, James J.	Tofield	129	22-12-10
McDicken, James	Coleman	251	26- 6-19
McDonald, Duncan	Canmore	112	2- 6-10
*McDonald, Hector	Bankhead	115	3- 6-10
McDonald, George	Drumheller	212	1- 6-18
McDonald, J. A.	Blairmore	44	18- 4-05
McDonald, James A.	Lille	91	29-11-09
McDonald, James O. C.	Coleman	225	25-11-12
McDonald, James W.	Mountain Park	709	1- 5-29
McDonald, John H.	Edmonton	164	10- 7-17
McDonald, Kenneth L.	Bellevue	40	17- 7-42
McDonald, Noble M.	Bellevue	5	28-11-13
McDonald, Thomas	Rosedale	653	12- 8-27
McDonald, William	Bellevue	777	10- 6-30
McDonald, William C.	Lethbridge	122	16- 7-10
McDonald, Wm. I.	Drumheller	235	22- 6-36
McEachern, Malcolm	Wayne	531	17- 8-23
McFegan, Alex.	Drumheller	661	10- 9-27
McFegan, Robert	Brule	255	26- 6-19
McGarry, Martin	Michel, B.C.	59	19- 1-09
McGaw, A. M. S.	Carmangay	398	1- 8-21
McGough, Joseph P.	Bellevue	219	18-11-12
McGladrie, John	Lille	152	8- 7-11
McGladrie, Andrew	Lethbridge	423	1- 8-21
McGladrie, Robert I.	Nevis	63	24- 7-43
McGowan, James K.	Lethbridge	13	10- 3-14
McGowan, John	Drumheller	57	2- 6-32
McGowan, William	Lethbridge	317	26- 7-20
McGregor, Alex.	Frank	41	16- 1-05
McGregor, Alexander	Lethbridge	271	26- 7-37
McGregor, Thomas B.	Lethbridge	417	1- 8-21
McGuckie, J. M.	Wayne	97	3- 8-44
McGuire, George	Dinant	466	31- 7-22
McGuire, James S.	Dinant	467	31- 7-22
McIlveen, William	Lovett	80	19- 8-15
McIntyre, Arnold J.	Mercoal	331	7- 9-38
McIntyre, John R.	Mercoal	107	18- 7-47
McIntyre, Joseph P.	Coleman	92	18- 7-47
McIsaac, John D.	Burmis	45	17- 7-42
McKay, John J.	Lethbridge	5	19-11-98
McKean, George J.	Bellevue	121	10- 7-16
McKenna, Harry	Pocahontas	376	17- 6-21
McKinley, James	Huxley	72	25- 6-32
McKinlay, James	Huxley (duplicate)	224	3- 6-36
McKinnie, John	Drumheller	369	26- 7-20
McKinnon, A. J.	Canmore	62	29- 1-09
McKinnon, Alexander	Coleman	632	30- 7-26
McKinnon, H. G.	Canmore	36	5-12-04
McKinnon, John L.	Coleman	189	4- 9-17
McLafferty, Daniel	Bellevue	50	26- 7-42
McLafferty, P.	Bellevue	551	1-11-23
McLaren, Fred	Dinant	341	14-11-38
McLaren, Ian	Cadomin	99	18- 7-47
McLaughlin, Michael	Luscar	403	3-10-39
McLean, William	Mountain Park	122	10- 7-16
McLeary, Stewart	Lethbridge	58	12- 1-09
McLellan, John A.	Lovett	77	8- 5-15
McLenhan, John A.	Strathcona	51	8- 6-08
McLennan, George A.	Drumheller	534	17- 8-23
McLeod, Allan	Rosedale	543	1- 9-23
McLeod, Arthur	Drumheller	50	22-10-31
McLeod, Gordon J.	Mountain Park	422	1- 8-21
McLeod, John A.	Edmonton	74	8- 3-15
McLeod, John R.	Bellevue	591	27- 5-25
McMillan, Alexander	Rosebud	34	28- 7-41
McMillan, Daniel	Drumheller	149	7- 7-17
McMillan, Donald	Coleman	107	31- 5-10
McMillan, James	Mountain Park	66	11- 8-43
McMillan, William	Rosebud	168	26- 7-34
McMillan, William D.	Lethbridge	72	25- 2-09
McMullen, Sidney G.	Drumheller	311	22- 6-38
McMullin, Joseph	Hillcrest	171	17-11-11
McMurdo, Thomas	East Coulee	18	13- 7-31
McNab, Duncan	Lethbridge	739	17- 6-29
McNeil, Thomas	Mountain Park	36	4- 3-42
McQueen, Alexander	Mercoal	101	5-10-44
McQueen, Andrew	Nordeg	124	19- 7-16
McQueen, George	Nordeg	270	26- 6-19
McQueen, Thomas A.	Mercoal	64	27- 7-46
McVey, William	Frank	39	10- 1-08

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Naegeli, Otto	Midlandvale	54	26- 2-32
Nanson, Thomas H.	Canmore	15	3- 1-07
Nedimovich, Stanley	Mercoal	110	18- 7-47
Negrello, Mike	Ccalhurst	7	13- 7-31
Nelson, Horatio	Lundbreck	11	3- 1-07
Nelson, John	Rosedale	356	8- 6-39
Nelson, John B. H.	Dinant	335	19- 9-38
Nelson, Walter W.	Coleman	462	31- 7-22
Niblett, Ronald J.	Rosedale	41	17- 7-42
Nicholson, Peter	Cadomin	472	31- 7-22
Nicol, George	Pocahontas	27	21- 4-14
*Nicol, James	Frank	34	26-12-07
Nielsen, Nils F.	Carbondale	223	3- 6-36
Nisbet, George	Beverly	759	4- 6-30
Niskanen, Herman	Canmore	671	19- 7-28
Norman, John	Beverly	136	31-10-33
Norris, Fred A.	Mountain Park	32	25- 7-45
North, Walter J.	Blairmore	204	18- 4-18
Novak, Mike	Milk River	56	4- 5-32
Nugent, Bernard	Taber	133	30- 8-16
Oakes, Robert	Bankhead	104	10- 6-16
Oakley, John	Mountain Park	115	10- 7-16
O'Brien, Anthony	Gadsby	244	10- 3-37
O'Donnell, Thomas	Kipp	139	17- 3-11
Oldham, Albert	Luscar	579	11- 8-24
Olesky, Samuel P.	Mountain Park	77	14- 7-44
Oliphant, John	Bellevue	79	16- 7-09
Oliphant, J. H.	Frank	26	17- 5-07
Olitch, Charles	Bellevue	48	18- 7-46
Oliver, B.	Magrath	342	26- 7-20
Oliver, Edward	Taber	584	14-11-24
Ondrik, John F.	Coleman	16	16- 7-45
O'Neill, Henry J.	Nordegg	28	20- 7-45
O'Neill, Michael	Nordegg	748	9- 8-29
Ordge, John	Donalda	80	25- 7-32
Ostler, James	Taber	445	22- 5-22
Oswald, Joseph	Drumheller	178	10- 9-34
Otrasek, Michael	Aerial	93	20- 7-44
Ottewell, Cedric P.	Clover Bar	620	25-11-25
Ottewell, William J.	Clover Bar	245	31- 7-13
Owen, Thomas	Michel, B.C.	442	10- 3-22
Owens, John	Midlandvale	177	4- 9-34
Oxbury, John	Beynon	327	26- 8-38
Paavola, Henry	Canmore	45	18- 7-46
Padgett, Albert	Bellevue	177	17- 7-17
Page, Joseph	Drumheller	741	19- 6-29
Page, Joseph	Kindersley, Sask. (duplicate)	107	25- 2-48
Painter, J. A.	Bankhead	361	26- 7-20
Panek, Albin F.	Coleman	44	18- 7-46
Park, Alex. C.	Lethbridge	25	8- 4-14
Park, Angus	Edmonton	773	4- 6-30
Park, Stewart G.	Lethbridge	121	25- 6-10
Park, William	Lethbridge	194	13- 7-12
Parker, Jack	Cardiff	165	27- 6-34
Parker, Joseph	Drumheller	47	25-11-14
Parker, Levi	Bellevue	100	18- 1-10
Parkes, John T.	Lethbridge	236	31- 7-13
Parkinson, Harry	Coleman	465	31- 7-22
Parobchak, F.	Carbondale	353	8- 6-39
Parry, Joseph	Mercoal	316	8- 7-38
Parry, Robert	Coleman	546	15- 9-23
Parry, Thomas	Hillcrest	119	21- 6-10
Pascoe, Thomas	Mountain Park	796	14- 7-30
Passey, Thomas R.	Rosedale	111	13- 7-48
Passoli, E. L.	Vulcan	314	4- 7-38
Paterson, Patrick	Evansburg	139	3-10-16
Paterson, Samuel E.	Blairmore	778	10- 6-30
Paton, George	Delburne	727	7- 6-29
Patterson, John	Hillcrest	126	17-12-10
Patterson, William	Blairmore	515	17- 8-23
*Pavier, Evan	Coleman	91	27- 8-15
Pearson, Francis	Hillcrest	468	31- 7-22
Perini, Angelo	Granlea	194	10- 6-35
Perini, John	Lethbridge	153	9- 6-34
Perry, James E.	Beynon	612	25- 7-25
Peta, Frank	Lethbridge	104	24-10-44
Peta, Julius	Hardieville	225	4- 6-36
Peters, Frederick C.	Wayne	582	25- 9-24
Peters, Wm. E.	Blairmore	762	4- 6-30
Petit, Jules A.	Newcastle	71	14- 7-44
Petrosky, M. J.	Coleman	96	20- 7-44
Pettigrew, Robert	Coleman	146	5- 6-34
Phillips, Alfred J.	Coleman	146	5- 6-34
*Phillips, Chas.	Frank	14	30-12-02
Phillips, David	Commerce	110	10- 7-16

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Phillips W. J.	Saunders	733	17- 6-29
Phillips, W. T.	Castor	99	10- 6-33
Phipps, Mathew J.	Mountain Park	494	1- 9-22
Pickard, Joseph	Edmonton	592	20- 7-25
Pickering, G.	Taber	104	25- 2-10
Picton, Daniel	Passburg	178	23-11-11
Picton, William	Frank	78	8- 7-09
Pike, Sidney G.	Drumheller	119	24- 7-33
Piper, John J.	Canmore	716	7- 6-29
Pitt, Arthur J.	Coleman	108	10- 7-16
Plesuk, William	Beverly	357	8- 6-39
*Poholka, Steve	Edmonton	149	9- 6-34
Poole, Alexander	Drumheller	241	16- 5-19
Popovich, Mike	Champion	112	3- 7-33
Porteous, Alexander	Hillcrest	36	26- 5-14
Potter, Albert T.	Drumheller	88	18- 7-47
Potter, Harry	Drumheller	797	8- 8-30
Potter, I. N.	Nacmine	167	26- 7-34
Pounder, George	Pincher Creek	84	22- 9-09
Powell, Albert E.	Clover Bar	71	4- 2-09
Powell, John E.	Newcastle	700	22- 8-28
Poxon, Wilfred	Carbon	555	15-11-23
Pratt, Philip	Lovettville	117	10- 7-16
Prentice, John	Lille	67	1- 2-09
Prescott, William	Hillcrest	249	26- 6-19
Price, Alfred	Edmonton	103	4- 1-16
Price, John	Mountain Park	116	10- 7-16
Price, John	Mountain Park	497	1-11-22
Price, John C.	Coleman	377	4- 7-39
Price, Richard	Hillcrest	590	21- 4-25
Price, Stanley R.	Blairmore	9	13- 7-31
Price, Wm. T.	Edmonton	195	14- 6-35
Puckett, Owen L.	Lovett	53	27-11-14
Purdy, Denzil	Lundbreck	237	4- 7-36
Purdy, Stearns J.	Bellevue	37	28- 5-14
Quaife, Delbert C.	Rimbey	74	15-10-46
Queen, Andrew M.	Lethbridge	228	26-12-12
Quigley, Daniel H.	Lethbridge	151	14- 7-11
Quin, James	East Coulee	66	25- 6-32
Radford, James	Bellevue	200	22- 7-12
Radford, James T.	Bellevue	132	15- 9-33
Radford, J. H.	Heisler	738	17- 6-29
Radocy, Isaac C.	Aerial	23	13- 7-31
Radocy, Kenneth	Aerial	70	14- 7-44
Rae, Alex.	Blairmore	47	18- 7-42
Rae, John	Coleman	242	31- 7-13
Raeder, William	Elkwater	110	15- 6-33
Raisbeck, A. B.	East Coulee	785	10- 6-30
Raisbeck, James	East Coulee	215	29- 8-35
Raisbeck, Luke	East Coulee	330	7- 9-38
Raisbeck, Robt. M.	Drumheller	213	12- 8-35
Ramage, John	Coalhurst	648	12- 8-27
Ramsay, Hector M.	East Coulee	102	18- 7-47
Randall, David	Coleman	191	10-10-17
Rankin, William	Hosmer, B.C.	4	28-11-13
Rappel, A. J.	Calgary	355	26- 7-20
Rappel, Thomas	Rosedale	337	26- 7-20
Ratcliffe, Thomas	Drumheller	24	13- 7-31
Rawlinson, Rowland	Burmis	182	28-11-11
Rawson, Thomas S.	Frank	1	20-12-05
Ray, William J.	Hillcrest	669	22- 4-28
Rayner, Frederick	Frank	188	8-12-11
Rear, Albert E.	Corbin, B.C.	728	7- 6-29
Rebar, George	Lethbridge	229	22- 6-36
Rebar, Mike	Hardieville	19	18- 3-14
Redpath, James	Wayne	208	1- 6-18
Reed, John C.	Edmonton	779	10- 6-30
Rees, Daniel	Bellevue	56	27-11-14
Rees, Daniel	East Coulee	270	24- 7-37
Rees, Ernest	Hillcrest	686	1- 8-28
Rees, Edward D.	Bellevue	105	15- 6-33
Rees, Gomer	Beverly	96	12-10-15
Rees, Sandford	Mountain Park	81	28- 7-32
Reese, William H.	Lethbridge	435	29- 8-21
Reid, Edward	Drumheller	206	1- 6-18
Reid, James	Taber	158	24- 7-11
Reid, Samuel	Beverly	211	1- 6-18
Reid, Wm. P.	Lethbridge	732	17- 6-29
Reissig, Erich	Willow Creek	388	12- 8-39
Remillard, Omer V.	Castor	304	22- 6-38
Reynolds, Arthur E. V.	Mercoal	404	10-11-39
Reynolds, Horace C.	Canmore	11	13- 7-31
Rhodes, George	Champion	96	10- 6-33
Rhodes, Harold	Robb	36	1- 8-45
Rhodes, William B.	Lundbreck	625	26- 7-26

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Rice, Awrey	Frank	48	18- 4-05
Richards, Clifford	Hillcrest	17	11- 7-41
*Richards, Edward	Drumheller	271	26- 6-19
Richards, Evan	Cardiff	162	17-11-11
Richards, George	Coleman	137	31-12-10
Richards, Harold	Hillcrest	484	1- 8-22
Richards, John C.	Coleman	386	1- 8-21
Richards, Lorenzo	Coleman	142	5- 6-34
Richards, Lorenzo C.	Coleman	286	7- 6-38
Richards, M. C. Russell	Edmonton	509	17- 5-23
Richards, Samuel	Corbin, B.C.	175	17-11-11
Richards, Thomas	Wayne	392	1- 8-21
Richardson, Alfred	Lethbridge	125	17-12-10
Richardson, E. H.	East Coulee	205	17- 7-35
Richardson, John	Camrose	393	1- 9-39
Ridgeway, Leonard J.	Coalhurst	457	31- 7-22
Riordan, Leo	Drumheller	173	13- 8-34
Riva, Joseph	Canmore	288	8- 6-38
Robbins, John	Drumheller	390	17- 8-39
Robert, David C.	Edmonton	113	10- 7-16
Roberts, David O.	Edmonton	106	7- 7-16
Roberts, E.	Passburg	118	20- 6-10
Roberts, Evan	Wayne	318	26- 7-20
Roberts, Horace	Drumheller	251	11- 6-37
Roberts, John	Nelson, B.C.	140	6- 4-11
Roberts, Lemuel	Wayne	488	1- 8-22
Roberts, Robert	Wayne	464	31- 7-22
Roberts, Simon	Cadomin	21	13- 7-31
Roberts, William	Strathcona	95	3-12-09
Roberts, William	Rosedale	11	4- 9-40
Robertson, Alexander	Lethbridge	633	30- 7-26
Robertson, Duncan	Drumheller	47	26- 7-31
Robertson, W. J.	Coalhurst	333	26- 7-20
Robinson, Edward	Drumheller	101	28-10-15
Robinson, John H.	Hillcrest	106	31- 5-10
Rochester, John J.	Carbon	689	1- 8-28
Rogers, Benjamin	Canmore	753	5-11-29
Rolfe, Emrys	Hillcrest	691	16- 8-28
Rollingson, John	Lethbridge	280	26- 6-19
Roome, Herbert	Mountain Park	44	17- 7-42
Roome, John	Mountain Park	49	26- 7-42
Roome, Richard	Mountain Park	588	24- 1-25
Rose, Walter	Lundbreck	54	25- 8-08
Ross, A. W.	Delia	124	29- 7-33
Rota, Steve	Champion	219	29- 8-35
Rowbotham, William H.	Royal View	116	6- 6-10
Rowley, Arthur	Calgary	455	31- 7-22
Royle, Edward	Hillcrest	323	26- 7-20
Rozzolini, Albert	Raymond	126	29- 7-33
Ruffee, Harry G.	Nacmine	204	9- 7-35
Runge, William	Rosalind	34	26- 7-45
Ruscoe, Richard	Halkirk	282	26- 6-19
Russell, Arthur	Standard	59	5-12-14
Russell, John	Mitford	67	20- 1-15
Russell, Robert	Alix	69	25- 6-32
Russell, William C.	Drumheller	705	24-11-28
Rutherford, Leslie D.	Saunders	565	6- 5-24
Rutherford, Wilson	Drumheller	583	30-10-24
Ryning, James W.	Rowley	383	4- 7-39
Salmond, James M.	Bankhead	6	20-12-05
Sanis, Kenneth E.	Namoo	402	18-10-39
Sandino, Joseph	Bellevue	238	31- 7-13
Sarsfield, William	East Coulee	273	28- 8-37
Sartore, Lucien	Mercoal	101	18- 7-47
Saunders, Herbert A.	Cardiff	76	2- 7-32
Saunt, James	Drumheller	309	26- 7-20
Scarpino, Eugene M.	Rosedale	389	14- 8-39
Schlender, Otto	Trochu	118	6- 7-33
Schmidt O. P.	Edmonton	44	1- 2-08
Schneider, Nick	Dimsdale	197	28- 6-35
Schnepf, Karl J.	Rosebud	6	3- 8-40
Schon, Karl	Edmonton	140	13- 7-48
Schymizek, John	Bright Bank	302	22- 6-38
Scott, Alexander	Pocahontas	185	28-11-11
Scott, Andrew N.	Edmonton	28	23- 5-07
*Scott, Frederick G.	Nordeg	287	2- 9-19
*Scott, Hugh	Lethbridge	8	5- 6-99
Scott, J. D.	Rosedale	722	7- 6-29
Scott, Robert	Lethbridge	6	19-12-98
Scott Robert	Mountain Park	399	1- 8-21
Sedlock, Joseph	Canmore	22	25- 6-03
Semeniuk, Steve	Shaughnessy	58	20- 7-43
Senycz, John J.	Bellevue	84	18- 7-47
Serrie, John	Taber	353	26- 7-20
Severns, Matthew	Strathcona	42	8- 9-14

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Severns, Matthew	Montana, U.S.A. (duplicate)	621	11- 5-26
Shandruk, Henry K.	Edmonton	695	16- 8-28
Sharretta, John	Blairmore	55	20- 7-46
Shaw, Eli	Canmore	229	30- 4-13
Shaw, John H.	Nordegg	426	1- 8-21
Shaw, Joseph H.	Nordegg	416	1- 8-21
Shaw, Robert	Coleman	226	22- 6-36
Shaw, Thomas J.	Canmore	113	3- 6-10
Shaw, Tom	Bellevue	202	18- 4-18
Shaw, William G.	Nordegg	409	1- 8-21
Shearer, J. C.	Rosedale	749	9- 8-29
Shearer, Peter	Cadomin	640	22- 9-26
Shellian, Andrew F.	Canmore	11	16- 7-45
Shepherd, W. L.	East Coulee	92	20- 7-44
Shepherd, Geo. E.	Wayne	477	1- 8-22
Sheridan, Daniel	Lacombe	296	11- 6-38
Sheratt, Owen Sr.	Coleman	199	13- 7-12
Sherwood, Harry R.	Canmore	751	8- 8-29
Shevels, John	Bellevue	523	17- 8-23
Sihvon, William	Bellevue	27	17- 5-07
Sikora, John Jr.	Coleman	68	29- 7-46
Simla, Joe	Coleman	10	16- 7-45
Simmons, Efner W.	Forestburg	611	25- 7-25
Simons, B. C.	Bellevue	36	26- 7-31
Simpson, Edward	Edmonton	300	22- 6-38
Simpson, Frank	Nacmine	206	22- 7-35
Sinclair, James	Drumheller	68	22- 1-15
Singleton, Robert	Lundbreck	47	29- 5-08
Sinoski, Mike	Edmonton	791	14- 6-30
Sinoski, Steve	Edmonton	252	11- 6-37
*Sippell, Joseph	Drumheller	295	1-12-19
Sirko, Tibor	Rosedale	319	21- 7-38
Sladek, Anton, Jr.	Rosedale	90	18- 7-44
Sladek, Henry	Rosedale	53	19- 7-46
Small, Samuel	Luscar	118	13- 7-48
Smillie, John	Drinnan	152	9- 6-34
Smillie, Walter	Evansburg	772	4- 6-30
Smith, A. J. P.	Bellevue	103	21- 2-10
Smith, Andrew A.	Drumheller	522	17- 8-23
Smith, Charles E.	Rosebud	396	12- 9-39
Smith, Harry	Drumheller	338	21-10-38
Smith, Hugh	Canmore	35	5-12-04
Smith, James	Nordegg	9	3- 8-40
Smith, James	Wayne	211	10- 8-35
Smith, James H.	Beverly	128	13- 7-48
Smith, John	Blairmore	94	1- 9-15
Smith, John A.	Cadomin	31	13- 7-31
Smith, Peter	Coleman	718	7- 6-29
Smith, Ralph	Canmore	3	30- 5-06
Smith, Robert	Canmore	32	5-12-04
Smith, Sidney L.	Drumheller	552	1-11-23
Smith, T. Edwin	Yetwood	130	26- 7-16
Smith, Terence	Edmonton	646	1- 8-27
Smith, Thomas	Hillcrest	216	1-11-12
Smith, Thomas	Coleman	307	26- 7-20
Snarey, George	Taber	62	5-12-14
Sneddon, Thomas	Taber	444	3- 4-22
Snow, Percy E.	Lethbridge	729	7- 6-29
Sorro, Christopher	Blairmore	203	18- 4-18
Sparrow, Edwin	Frank	2	20-12-05
Speaker, Pete A.	Calgary	489	1- 9-22
Spencer, Murray A.	Lovett	43	18- 9-14
Spencer, W. J.	Bankhead	51	6- 7-05
*Sprela, Martin	Willow Creek	163	19- 6-34
Staite, Albert E.	Trochu	56	20- 7-43
Stanko, Martin	Drumheller	13	13- 7-31
Stanley, Henry	Nacmine	615	1- 8-25
Steele, Francis M.	Pincher Creek	319	26- 7-20
Steele, John W.	Lethbridge	17	16- 3-14
Steen, Alf C.	Rosedale	398	16- 9-39
Steen, Herman	Hanna	277	26- 6-19
Stene, Alexander	Cadomin	10	13- 7-31
Stene, David	Edmonton	430	29- 8-21
Stene, Wm. V.	Cadomin	88	17- 7-44
Stephenson, Joseph	Commerce	232	30- 4-13
Stephenson, Thomas	Bellevue	230	7- 4-13
Steven, Robert	Banff	701	22- 8-28
Stevenson, Morris	Drumheller	218	25- 9-35
Stevenson, Robert	Drumheller	757	25- 3-30
Steward, Frederick G.	Drumheller	624	26- 7-26
Stewart, George W.	Nordegg	667	16- 1-28
Stewart, James	Lethbridge	305	26- 7-20
Stewart, James Jr.	Lethbridge	120	13- 7-48
Stewart, Jas. M. Jr.	Nordegg	281	7- 3-38
Stewart, R. E.	Shaughnessy	802	15-10-30

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Stobbs, Joseph	Diamond City	217	5-11-12
Stocco, Reno	Drumheller	31	23- 7-45
Stott, John	Lethbridge	38	23-12-04
Stott, John	Lethbridge (duplicate)	231	7- 4-13
Strachan, John	Fernie, B.C.	437	29- 8-21
Strader, Donald M.	Gadsby	108	18- 7-47
Strang, David	Mountain Park	746	23- 7-29
*Stratton, Andrew T.	Taber	351	26- 7-20
*Stratton, Andrew T.	Redcliff (duplicate)	329	7- 9-38
Stratton, James M.	Taber	181	25- 7-17
Stratton, Robert	Langford Park	22	17- 7-45
Strecker, John	Rosedale	29	20- 7-45
Streich, Paul	Ardley	202	8- 7-35
Strickland, William	Evansburg	145	5- 7-17
*Studholme, John H.	Dinant	559	18-12-23
Surrendi, Nick	Wayne	73	14- 7-44
Susnar, Alexander	Kaydee	52	18- 7-46
*Sutherland, E. S.	Beverly	395	1- 8-21
Sutherland, S. R.	Bellevue	782	10- 6-30
Swan, Harry	Priddis	307	22- 6-38
Swanston, Matthew	East Coulee	392	1- 9-39
Sward, Henry	Rose Lynn	104	10- 6-33
Tait, Burton	Edmonton	1	16- 7-45
Talbot, Walter J.	Clover Bar	533	17- 8-23
Talbot, William	Drumheller	235	22- 6-18
Tamborini, Bruno	Bellevue	20	16- 7-45
Tannucci, Joseph	Nordegg	485	1- 8-22
Taylor, Edward	Groton	154	9- 6-34
Taylor, John	Drumheller	649	1- 8-27
Taylor, Robert	Calgary	85	24- 8-32
*Taylor, Thos.	Lundbreck	30	23- 5-07
Taylor, William	Lethbridge	10	16- 4-01
Taylor, William	Midlandvale	514	17- 8-23
Teasdale, J. R. W.	Drumheller	540	1- 9-23
Tennant, James	Mountain Park	358	8- 6-39
Tennant, John	Lethbridge	165	10- 7-17
Tennant, Robert	Lethbridge	84	19- 8-15
Tennant, William G.	Lethbridge	228	8- 6-18
*Teppo, Herman	Bellevue	19	3- 1-07
Terris, Andrew	Nordegg	170	17- 7-17
*Terris, Chapen	Saunders	429	1- 8-21
Thackray, Fred	Taber	281	26- 6-19
Thirlwell, Wm.	Robb	4	20- 2-31
*Thom, George	Pocahontas	142	12-12-16
*Thomas, David	Bankhead	31	5-12-04
Thomas, David R.	Ryley	241	6-11-36
Thomas, David R.	Luscar	379	4- 7-39
Thomas, David S.	Midlandvale	55	21- 3-32
Thomas, Edward J.	Drumheller	706	24-11-28
Thomas, Isaac	Coleman	204	27- 7-12
Thomas, John B.	Edmonton	46	19-11-14
Thomas, John J.	Frank	74	21- 4-09
*Thomas, Jos. D.	Frank	81	25- 8-09
Thomas, William	Luscar	38	26- 7-31
Thomason, Charles	Michel, B.C.	234	14- 6-18
Thompson, Andrew	Aerial	267	26- 6-19
Thompson, John W.	Drumheller	274	1- 9-37
Thompson, Joseph	Coleman	165	17-11-11
Thompson, Thos.	Coleman	93	29-11-09
Thompson, Thos.	Lundbreck	16	3- 1-07
Tompkins, David F. R.	Foothills	659	1- 9-27
Thomson, Alexander	Edmonton	141	5- 6-34
Thomson, David	Lovett	82	19- 8-15
Thomson, George H.	Lethbridge	433	29- 8-21
Thomson, James	Beverly	425	1- 8-21
Thomson, John	Edmonton	758	4- 6-30
Thomson, John D.	Drinnan	360	8- 6-39
Thomson, Roger A.	Lovett	66	22-12-14
Thomson, Thomas W.	Bankhead	161	17-11-11
Thomson, Walter	Clover Bar	628	26- 7-26
Thomson, William	Edmonton	683	1- 8-28
Thornhill, John E.	Coalhurst	482	1- 8-22
Tiberg, Arik N.	Blairmore	38	17- 7-42
Tiberghiem, A. J.	Coleman	264	23- 6-37
Tiffin, Richard	Coleman	188	10- 6-35
Tilley, John C.	Bellevue	511	30- 6-23
Timm, Paul	Willow Creek	77	23-10-46
Tinsley, Albert J.	Rosedale	381	4- 7-39
Tisdale, James R.	Nordegg	231	8- 6-18
Tomsich, John	Mercoal	18	16- 7-45
Tonge, Reginald	Blairmore	90	30- 9-32
Tonge, Thomas	Lundbreck	5	30- 5-06
Topak, Peter	Coleman	55	14- 7-43
Travis, Joseph	Bankhead	303	26- 7-20
Trentham, Harry	Ghost Pine	536	17- 8-23

THE MINES BRANCH

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Treventhin, Mark	Wayne	305	22- 6-38
*Troman, Samuel	Lethbridge	87	26- 8-15
Tucker, John M.	Entwistle	528	17- 8-23
Tully, Thomas	Fernie, B.C.	215	1-11-12
Turner, Leonard	Nordegg	125	19- 7-16
Turner, Samuel H.	Frank	21	25- 6-03
Turner, Samuel H.	Frank (duplicate)	22	8- 5-07
Turner, William	Hillcrest	244	31- 7-13
Turner, William A.	Halcourt	262	23- 6-37
Turner, William H.	Blairmore	525	17- 8-23
Tyldslev, Albert	Beverly	545	17- 8-23
Tyrer, Edward	Lethbridge	5	13- 7-31
Tyrer, Harold	Lethbridge	70	25- 6-32
Unsworth, George	Scapa	399	12-10-39
Unsworth, Robert J.	Scapa	704	24-11-28
Urwin, Henry	Canmore	123	29- 7-33
Urwin, James	Coleman	95	28- 7-44
Utley, Frederick W.	Bellevue	250	26- 6-19
Valentini, Marcelli	Bow Island	309	22- 6-38
Vanbesien, Jules	Champion	366	22- 6-39
Van De Kinder, Maurice F.	Cambria	61	24- 7-46
Van Duncombe, Walter	Taber	394	12- 9-39
Vannucci, Luigi	Brule	629	26- 7-26
Van Schoorl, August	Coleman	228	22- 6-36
Vasek, Louis M.	Coleman	6	16- 7-45
Vaselenak, Michael P.	Lethbridge	159	10- 7-17
Vickers, William A.	Taber	443	10- 3-22
Villard, Henry	Wayne	450	31- 7-22
Vining, Samuel	Luscar	635	30- 7-26
Vitaly, Mike L.	Namao	351	8- 6-39
Vivyrka, John	Mercoal	44	26- 7-31
Vola, Serafino	Canmore	63	1- 2-09
Voynovich, Rade	Robb	104	18- 7-47
Waddington, Daniel M.	Coleman	259	23- 6-37
Waite, Archibald	Taber	11	6- 7-03
Wakaruk, George	Newcastle	67	26- 7-46
Wakaruk (Walker), John J.	Newcastle	48	20- 7-42
Wales, Harry	St. Albert	141	13- 7-48
Walker, Charles C.	Wayne	385	1- 8-21
Walker, H. M.	Bellevue	368	26- 7-20
Walker, Ian M.	Blairmore	89	18- 7-47
Walker, William	Newcastle	66	26- 7-46
Waller, Herbert	Natal, B.C.	562	28-12-23
Wallwork, William	Taber	118	10- 7-16
Walsh, James C.	Bellevue	34	13- 7-31
Walton, Geo. A.	Forestburg	67	25- 6-32
Wardrop, James	Georgetown	72	16- 2-15
Warneboldt, Julius	Sheerness	658	1- 9-27
Warren, Michael	Canmore	304	26- 7-20
Watkin, Geo. E.	Bittern Lake	59	2- 6-32
Watkins, James M.	Taber	128	26- 7-16
Watkins, John W.	Canmore	3	15-11-98
Watkins, W. E.	Canmore	1	14-11-98
Watson, Adam G.	Calgary	215	1- 6-18
Watson, David	Leduc	77	11- 7-32
Watson, James	Edmonton	378	1- 8-21
Watters, A. G.	Bankhead	49	29- 5-08
Watters, David G.	Drumheller	120	29- 7-33
Watters, John	Bankhead	5	20-12-05
Watters, John J.	Edmonton	12	19- 9-40
Weaver, William	Natal, B.C.	530	17- 8-23
Webb, James F.	Canmore	42	8- 4-05
Welsh, Wm. R.	Lundbreck	9	3- 1-07
Wesnedge, William	Nordegg	58	5-12-14
Westcott, Henry M.	Wayne	651	1- 8-27
Weston, Thomas	Strathcona	73	7- 4-09
Wheatcroft, Fred Jr.	Drumheller	225	8- 6-18
Wheatcroft, George L.	Wayne	394	1- 8-21
Wheatley, Frank M.	Blairmore	599	20- 7-25
Wheatley, James W.	Banff	276	4-10-37
Wheeler, Albert	Clyde	282	24- 3-38
Whelan, Charles J.	Newcastle	556	4-12-23
White, Alfred	Hillcrest	389	1- 8-21
White, George	Nordegg	83	24- 8-32
White, Harry	Frank	90	29-11-09
White, Harry J.	Coalhurst	677	19- 7-28
White, James B.	Nordegg	102	24-10-44
White, John	Nordegg	210	10- 8-35
White, John M.	Lethbridge	233	14- 6-18
White, Michael	Drumheller	906	29-10-30
White, Mike	Wayne	27	20- 7-45
White, Robert	Nordegg	411	1- 8-21
White, William	Coleman	427	1- 8-21
White, William	Hillcrest	388	1- 8-21
Whitefield, Isaac	Coalhurst	15	10- 3-14

List of Names of Holders of Third Class Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Whitehead, John G.	Drumheller	60	24- 7-46
Whitehead, J. W.	Lethbridge	712	7- 6-29
Whitelaw, William	Blairmore	532	17- 8-23
Whittaker, William C.	Coleman	643	25- 5-27
Whyte, David	Pipestone Creek	253	11- 6-37
Whyte, William	Lethbridge	446	16- 6-22
Wilcox, William J.	Beverly	140	11-11-16
Wilkie, John	Sheerness	405	1- 8-21
Wilkinson, James	Bragg Creek	116	3- 7-33
Willetts, Frederick	Lethbridge	162	10- 7-17
Willetts, Norman	Hillcrest	571	24- 7-24
Williams, Albert	Beverly	138	25- 9-16
Williams, D. J.	Mountain Park	35	13- 7-31
Williams, H. A.	Mountain Park	792	3- 7-30
Williams, Hugh	Nordegg	577	1- 8-24
Williams, John	Barnwell	161	16- 6-34
Williams, John J.	Bickerdike	223	25-11-12
Williams, John T.	Bellevue	33	23- 5-14
Williams, L. A.	Edmonton	768	4- 6-30
Williams, Walter	Alix	29	13- 7-31
Williams, Walter E.	Clover Bar	213	31-10-12
Williams, Wm.	Barnwell	87	23- 9-32
Williamson, David S.	Camrose	558	18-12-23
Williamson, John B.	Cadomin	473	31- 7-22
Willmott, William	Canmore	38	10- 1-08
Wilson, Alexander	Drumheller	169	17- 7-17
Wilson, Charles	Lethbridge	130	8- 9-33
Wilson, John	Canmore	2	15-11-98
Wilson, Samuel	Drumheller	639	20- 8-26
Wilson, Samuel G.	Cadomin	123	13- 7-48
Wilson, Wm. Geo.	Coleman	3	20-12-05
Wilton-Clark, Harry	Bellevue	594	20- 7-25
Wiltse, Donald H.	Forestburg	688	1- 8-28
Wiltse, Floyd N.	Forestburg	125	29- 7-33
Wisla, Martin	Hillcrest	100	18- 7-47
Wisla, Michael	Hillcrest	90	18- 7-47
Wiswell, Byron	Blairmore	524	17- 8-23
Wiswell, Byron	Blairmore	637	6- 8-26
Withington, Harry E.	Newcastle	664	14-10-27
Wolff, Alfred	Willow Creek	387	12- 8-39
Woolney, Karl	Bellevue	681	1- 8-28
Wolstoncroft, Robert	Commerce	175	17- 7-17
Womersley, Alfred	Redcliff	316	26- 7-20
Womersley, E.	Blairmore	783	10- 6-30
Wood, Matthew	Bellevue	508	17- 5-23
Woods, Robert W.	Wabamun	91	18- 7-47
Woodward, Clarence	Bellevue	94	16- 2-33
Woolett, Charles	Edmonton	379	1- 8-21
Worthington, Thomas	Lethbridge	92	1- 9-15
Worthington, Willard T.	Edmonton	75	22-10-46
Wright, Albert	Mountain Park	109	18- 7-47
*Wright, John S.	Canmore	12	3- 1-07
Wright, S. P. T.	Coalhurst	336	26- 7-20
Wright, S. P. T.	East Coulee (duplicate)	243	1- 2-37
Wrigley, Walter	Frank	37	10- 1-08
Wukusich, John A. S.	Lethbridge	117	13- 7-48
Wylie, James	Commerce	520	17- 8-23
Yakiwczuk, John	Shaughnessy	49	18- 7-46
Yard, Lloyd Geo.	Trochu	373	22- 6-39
Yarham, John I.	Forestburg	321	8- 8-38
Yates, James	Coleman	504	15- 2-23
Yorko, Simon A.	Shaughnessy	345	8- 6-39
Young, Albert	Foreman	159	16- 6-34
Young, Charles	Newcastle	278	10-11-37
Young, David B.	Blairmore	581	25- 9-24
Young, John	Drumheller	214	29- 8-35
Young, Robert	Newcastle	603	25- 7-25
Young, Robert	Newcastle (duplicate)	788	14- 6-30
Young, Samuel	Cardiff	101	18- 1-10
Young, Thomas	Taber	57	11- 1-09
Young, Warren	Wayne	216	30- 8-35
Zak, Albert	Commerce	324	26- 7-20
Zambo, Joseph	Aerial	292	10- 6-38
Zaputit, Frank W.	Rosedale	397	12- 9-39
Zemek, Joseph	Frank	82	18- 7-47

*Deceased.

List of Names of Holders of Mine Surveyors' Certificates

Name	Address	Cert. No.	Date of Issue
Adam, William A.	Lethbridge	40	21- 8-15
Allen, Peter	Coleman	109	23-11-15
Ashburner, Edward	Edmonton	79	1- 9-15
Aspinall, Francis	Calgary	1	7- 8-15
Atkins, Cecil B.	Evansburg	162	17- 7-23
Baxter, Andrew W.	Lethbridge	119	23-11-15
Billington, Edward E.	Coleman	42	23- 8-15
Bilteyst, Jean	Taber	73	1- 9-15
*Black, Ernest D.	Sewell, Man.	75	1- 9-15
Brown, David T.	Blairmore	6	18- 7-47
Brown, Hugh R.	Commerce	125	10- 7-16
Brown, John	Calgary	30	20- 8-15
Brown, John D. B.	Blairmore	8	18- 7-47
Brown, Thomas	Edmonton	133	17-11-17
Burgess, Wilfred D.	Edmonton	169	18-12-23
*Callander, Ira C.	Pocahontas	39	21- 8-15
Cameron, Alan E.	Edmonton	154	9- 3-21
Carthew, John T.	Brule	164	17- 7-23
Cautley, Reginald H.	Edmonton	81	1- 9-15
Charbonnier, Jules	Blairmore	72	1- 9-15
Charlesworth, Lionel C.	Edmonton	22	7- 8-15
Chavignaud, Louis G.	Luscar	165	17- 7-23
Church, James A. H.	Edmonton	21	7- 8-15
Clement, Adolph L.	Calgary	158	1- 8-21
Congdon, Milton H.	Blairmore	157	1- 8-21
Cook, Arnold B.	Taber	113	23-11-15
*Cote, Jean L.	Edmonton	80	1- 9-15
Coulthard, Robert W.	Calgary	20	7- 8-15
Crawford, Alexander	Edmonton	11	13- 7-48
Crawford, John	Edmonton	4	18- 7-46
*Crowder, Harry	Drumheller	152	26- 7-20
*Crowder, James	Three Hills	111	23-11-15
Cummin, Charles H.	Brule	135	3- 7-18
Daniell, G. W. B.	Coleman	126	10- 7-16
*Darbyshire, James	Drumheller	69	1- 9-15
*Davidson, W. A.	Coleman	7	7- 8-15
Davis, Alfred	Lethbridge	114	23-11-15
DeHart, Joseph B.	Coalhurst	45	23- 8-15
Dennin, Frederick W.	Bow City	100	9- 9-15
Dewis, Clifford S.	Canmore	163	1- 8-22
Donaldson, Adam G.	Lethbridge	4	6- 8-43
Donaldson, C. S.	Lethbridge	151	26- 7-20
*Dougall, Ralph	Bankhead	49	23- 8-15
*Drinnan, Robert G.	Hillcrest	8	7- 8-15
Drinnan, R. G. Jr.	Edmonton	181	8- 8-30
*Driscoll, Alfred	Edmonton	91	7- 9-15
Drummond, Leonard E.	Edmonton	51	23- 8-15
Duggan, William H.	Beverly	84	1- 9-15
Dunn, Alex. C.	Edmonton	55	23- 8-15
Dunn, Robert A.	Edmonton	16	13- 7-48
Dutton, Joseph A.	Edmonton	3	30- 7-45
Dwarkin, L. M.	Coleman	2	30-10-41
Elliott, Edward P.	Pocahontas	33	20- 8-15
Elliott, G. R.	Canmore	150	26- 7-20
Ellis, William	Champion	94	7- 9-15
Evans, Daniel	Edmonton	123	29-12-15
Finnie, Oswald S.	Edmonton	57	23- 8-15
Flint, William G.	Canmore	76	1- 9-15
Foot, Robert G.	Coleman	54	23- 8-15
Fortner, Edward	Rocky Mountain House	83	1- 9-15
Foster, William	Wabamun	167	1- 9-15
*Fraser, A. T.	Edmonton	121	18-11-15
Fraser, Arthur A.	Coleman	8	2- 9-37
*Fraser, Norman	Edmonton	15	7- 8-15
French, Merritt H.	Calgary	3	22- 8-33
Gallon, Emile	Bellevue	89	7- 9-15
Gardner, H. H.	Coleman	180	23- 7-29
*Gheur, Ernest	Nordeg	129	22- 2-17
Graham, A. E.	Coleman	168	15- 9-23
Gray, David	Wayne	110	23-11-15
Green, Raoul	Blairmore	70	1- 9-15
Hall, W. E. G.	Coleman	143	2- 7-19
Hamilton, Allan	Blairmore	131	7- 7-17
Hamilton, Duncan C.	Drumheller	10	1-10-38
Hamilton, James F.	Lethbridge	56	23- 8-15
Hamilton, Robert	Redcliff	74	1- 9-15
*Hamilton, W. L.	Passburg	117	23-11-15
*Hardie, W. D. L.	Lethbridge	50	23- 8-15
*Hargreaves, James	Drumheller	52	23- 8-15
*Harrison, Stephen	Lethbridge	85	1- 9-15
Henderson, Thomas R.	Tofield	67	1- 9-15
Hetherington, W. B.	Calgary	144	9- 7-19
Hewitt, Herbert E.	Blairmore	6	6- 8-36
Higgins, Alexander	Calgary	145	15- 7-19
Hnatyshyn, Andrew C.	Blairmore	171	24- 7-24

List of Names of Holders of Mine Surveyors' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Hodson, Thomas H.	Nordegg	1	16- 7-45
*Holden, Jas. O. E.	Drumheller	46	23- 8-15
Hollies, R. T.	Edmonton	153	9- 3-21
Horne, Thomas	Castor	82	1- 9-15
Howells, N.	Lethbridge	160	3-11-21
Hughes, Edward	Calumet, U.S.A.	174	25- 9-24
*Hunter, Alexander B.	Wabamun	156	1- 8-21
*Huntrods, E. S. F.	Taber	34	20- 8-15
Hutchison, William	Hillcrest	68	1- 9-15
Hutchison, David	Hillcrest	29	20- 8-15
Hyde, Marcus L.	Evansburg	95	7- 9-15
*Johnson, Moses F.	Lethbridge	130	7- 7-17
Jones, David	Edmonton	32	20- 8-15
Jones, John R. B.	Hinton	5	1- 8-36
Jones, Samuel A.	Edson	26	19- 8-15
*Kellett, Walton	Lethbridge	47	23- 8-15
*Kellock, George	Coleman	105	23-11-15
Kelly, O. G.	Carbondale	2	29- 7-33
Kidd, G. L. S.	Calgary	132	10-10-17
*Knight, R. R.	Edmonton	96	9- 9-15
Knight, Sidney	Edmonton	122	3-12-15
Lavoie, G. A.	Frank	44	23- 8-15
*Leblanc, Emile	Taber	107	23-11-15
*Lee, Robert J.	Elcan, Sask.	64	1- 9-15
Lewis, John W.	Edmonton	159	10-10-21
Lindoe, Luke	Bellevue	136	3- 7-18
*Livingstone, Robert	Lethbridge	9	7- 8-15
Livingstone, Robt. D.	Lethbridge	11	25- 7-39
Lyster, H. M.	Bankhead	77	1- 9-15
*Marsh, John	Taber	124	4- 4-16
Marshall, J. W.	Evansburg	106	23-11-15
Maxwell, W.	Westville, N.S.	93	7- 9-15
Meldrum, Wm.	Lethbridge	98	9- 9-15
Melnyk, N.	Cadomin	182	10- 9-30
Millar, A. A.	Lovettville	97	9- 9-15
Millen, John	Nordegg	172	24- 7-24
*Mills, Harry W.	Bankhead	92	7- 9-15
Milne, M. C.	Edmonton	78	1- 9-15
Moodie, K. S.	Drumheller	101	9- 9-15
Moore, H. D.	Nordegg	149	26- 7-20
Morgan, Evan H.	Blairmore	3	14- 7-43
Morgan, Owen	Blairmore	148	26- 7-20
Morgan, Owen	Saunders (duplicate)	5	4- 5-45
Morgan, T. E.	Hillcrest	183	29-10-30
*Morris, J. J.	Canmore	14	7- 8-15
Morris, R. H.	Pocahontas	17	7- 8-15
Morris, William	Edmonton	12	1- 8-39
Macaulay, A. G.	Coleman	41	23- 8-15
Macaulay, D. A.	Drumheller	60	31- 8-15
McCulloch, James	Drumheller	104	23-11-15
McDonald, Duncan	Hardieville	118	23-11-15
*McDonald, John R.	Frank	128	22- 2-17
McKinnon, Donald F.	Cadomin	7	18- 7-47
McLenhan, J. A.	Edmonton	37	21- 8-15
McLeod, John A.	Edmonton	35	20- 8-15
McMullen, Arthur	Nordegg	1	26- 7-31
McNeill, W. F.	Calgary	6	7- 8-15
*McVicar, Samuel	Beaver Mines	120	23-11-15
Neumann, Theodore O.	Cadomin	15	13- 7-48
O'Donnell, Thomas	St. Albert	102	9- 9-15
Panchuk, Fred	Cadomin	10	13- 7-48
Panchysyn, Edward J.	Blairmore	12	13- 7-48
*Parker, John L.	Canmore	11	7- 8-15
Pascoe, Thomas	Calgary	178	1- 8-27
Plard, Marc	Bellevue	88	7- 9-15
Pickles, Wm.	Edmonton	24	18- 8-15
Pitcher, Norman C.	Edmonton	10	7- 8-15
Ponton, G. M.	Calgary	63	1- 9-15
Powell, A. E.	Wabamun	108	23-11-15
Pratt, John	Coleman	4	22- 7-35
*Puckett, O. L.	Lovett	31	20- 8-15
Pullen, Peter F.	Alexo	14	13- 7-48
Quigley, Daniel H.	Coalhurst	142	2- 7-19
Ralsbeck, Luke	Grassy Lake	103	23-11-15
Reid, A. H.	Commerce	62	1- 9-15
Reid, J. C.	Lethbridge	12	7- 8-15
Rhynas, Melville G.	Pincher Creek	9	1-11-37
*Richards, C. C.	Commerce	43	23- 8-15
Richards, J. A.	Calgary	13	7- 8-15
Richards, M. C. Russell	Edmonton	166	15- 9-23
Riddell, J. G.	Coleman	147	26- 7-21
Ritchie, D. W.	Edmonton	134	28- 6-18
Riva, Walter J.	Canmore	13	13- 7-48
Robert, L. P.	Blairmore	65	1- 9-15
Robertson, J.	Drumheller	61	1- 9-15

List of Names of Holders of Mine Surveyors' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
*Robertson, J. D.	Edmonton	23	7- 8-15
Robinson, W. E.	Coleman	139	11- 7-18
Scott, Andrew	Luscar	2	16- 7-45
Scott, A. N.	Pocahontas	36	20- 8-15
Shanks, David	Calgary	161	3- 4-22
Shanks, John	Calgary	58	28- 8-15
Shaw, Norman	Edmonton	170	16- 7-24
*Shaw, William	Blairmore	25	19- 8-15
Sherwin, P. M.	Frank	127	22- 1-17
*Smith, Frank B.	Edmonton	3	7- 8-15
Smith, T. E.	Coalhurst	137	3- 7-18
Sparks, H. E.	Brule	155	1- 8-21
Steele, F. M.	Pincher Creek	146	23- 3-20
Stevens, Leonard C.	Edmonton	66	1- 9-15
Stevenson, J.	Hardieville	116	23-11-15
Stevenson, William Jr.	Nordeg	59	31- 8-15
Stewart, R. T.	Ardley	173	11- 8-24
Stirling, John T.	Edmonton	19	7- 8-15
*Stockett, Lewis	Calgary	2	7- 8-15
Sutherland, C. C.	Edmonton	86	3- 9-15
*Thomas, Jos. D.	Passburg	115	23-11-15
Thorne, B. L.	Calgary	18	7- 8-15
*Thornton, Norman M.	Edmonton	16	7- 8-15
*Turner, John H.	Coalhurst	141	2- 7-19
Uiley, Frederick W.	Bellevue	177	26- 7-26
*Wain, W. Holt	Canmore	4	7- 8-15
*Wark, Samuel D.	Evansburg	99	9- 9-15
Watson, R. H.	Mountain Park	53	23- 8-15
Watters, John	Bankhead	87	3- 9-15
Wheeler, James S.	Calgary	112	23-11-15
Whigham-Teasdale, Jas. R.	Drumheller	7	18- 8-37
*Whiteside, O. E. S.	Coleman	27	19- 8-15
Whittaker, William C.	Coleman	179	6- 8-27
Williams A. E.	Bellevue	38	21- 8-15
Williams, T. B.	Canmore	48	23- 8-15
*Williams, W. P.	Bellevue	71	1- 9-15
Wilson, Andrew	Rosedale	1	19- 7-41
*Wilson, D. G.	Bankhead	5	7- 8-15
Wilson, William	Clover Bar	176	14- 8-25
Wilson, W. R.	Fernie, B.C.	90	7- 9-15
Wilton-Clark, Harry	Coleman	175	20- 7-25
Worthington, Willard T.	Edmonton	9	18- 7-47
Wright, Edwin	Bankhead	138	11- 7-18
Young, David B.	Bellevue	5	24- 9-46
*Young, W. H.	Calgary	28	19- 8-15

*Deceased.

List of Names of Holders of First Class Mine Electricians' Certificates

Anderson, Julius	Wayne	87	10- 9-40
Angelo, Steve	Drumheller	88	10- 9-40
Arndt, Joseph H.	Drumheller	61	30- 9-39
Bailey, Edwin T.	Carbondale	124	8-11-44
Barraud, Chas. A.	Nordeg	120	12- 7-44
Barrell, William	Ardley	101	14-11-40
Basso, Joseph	Cadomin	123	8-11-44
Beaton, Geo. M.	Luscar	116	15-10-42
Bell, Harold	Lethbridge	39	30- 9-39
Belley, Thomas	Mountain Park	76	24- 1-39
Berlando, Tully	Aerial	49	30- 9-39
Biamonte, Antonio	Clover Bar	1	25- 9-35
Blake, Gwilym	Blairmore	29	30- 9-39
Blas, Emile	Blairmore	28	30- 9-39
Broderick, Gideon	Canmore	14	30- 9-39
Brotherston, Robert A.	Clover Bar	2	25- 9-35
Brown, Hugh R.	Carbon	95	12- 9-40
Bucholtz, Robert C.	Redcliff	98	16- 9-40
Burch, George	Shaughnessy	107	29- 9-41
Buzenus, Christopher	Drumheller	51	30- 9-39
Callan, Lawrence	Cadomin	78	21-11-39
Cartledge, Harold L.	Edmonton	67	4-11-39
Chapman, James R.	Alexo	84	25- 5-46
Clark, James	East Coulee	59	30- 9-39
Conlin, Lloyd R.	East Coulee	10	13- 7-48
Conlin, Richard	Drumheller	50	30- 9-39
Craig, Andrew	Nacmine	91	11- 9-40
Devonshire, George H.	Canmore	15	30- 9-39
Dibblee, Edwin W.	Coleman	26	30- 9-39
Dolanz, Iggle	Three Hills	82	5-12-39
Dolanz, Steve	Three Hills	81	5-12-39
Dore, Vincent F.	Coal Valley	70	24-11-39

List of Names of Holders of First Class Mine Electricians' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Dutfield, George	Coleman	27	30- 9-39
Edwards, Mark	Entwistle	100	14-11-40
Finlayson, John C.	Robb	102	15-11-40
Ford, John C.	Drumheller	53	30- 9-39
Fox, Alfred	Carbon	83	5-12-39
Fraser, James	Coleman	31	30- 9-39
Freyppors, John	East Coulee	60	30- 9-39
Gidman, Joseph H.	Taber	40	30- 9-39
Gilchrist, J. N.	Wabamun	5	25- 9-39
Gitzel, Edward S.	Luscar	7	18- 7-47
Godfrey, Wiley R.	Coleman	18	30- 9-39
Grant, Alexander	Rosedale	47	30- 9-39
Gregor, Victor	Bellevue	17	30- 9-39
Grover, Henry	Calgary	16	30- 9-39
Hallworth, Frederick W.	Bellevue	23	30- 9-39
Hansen, Knud	Midlandvale	55	30- 9-39
Heidel, H. S.	Priddis	117	12-11-43
Henderson, John R.	Nacmine	46	30- 9-39
Henderson, John R.	Nacmine	4	6-12-46
Henderson, Patrick H.	Lethbridge	97	16- 9-40
Herman, Martin	Drumheller	48	30- 9-39
Higgins, William	Drumheller	52	30- 9-39
Hilman, Arnold R.	Nordegg	9	13- 7-48
Hodgkinson, John L.	Evansburg	112	21-11-41
Hooie, Wm.	East Coulee	86	10- 9-40
Horne, Robert	Drinnan	4	27- 9-39
Hunter, James	Edmonton	8	27- 9-39
Iwasiuk, Harry	Wabamun	7	27- 9-39
Johnson, Albert E.	Drumheller	85	10- 9-40
Johnson, Albert E.	Edmonton (duplicate)	126	3- 3-47
King, Samuel D.	Iron Springs	41	30- 9-39
King, William G.	Lethbridge	37	30- 9-39
Lain, John T.	Foothills	69	24-11-39
Lambert, Louis J.	Edmonton	3	25- 9-39
Lamond, David	Edmonton	121	12- 7-44
Laslop, Ignac	Midlandvale	92	11- 9-40
Lattin, Albert	Drumheller	89	10- 9-40
Lavis, Stewart	Drumheller	119	12-11-43
Lawrence, Charles G.	Hillcrest	19	30- 9-39
Lister, Alexander B.	Edmonton	9	27- 9-39
Lupul, Eugene	Saunders	122	12- 7-44
Manning, Thomas	Drumheller	93	11- 9-40
Marsh, Cyril	Drumheller	57	30- 9-39
Mathison, Matthew	Robb	72	24-11-39
Mellet, Percy M.	Sterco	71	24-11-39
Milesen, Thomas H.	Lethbridge	34	30- 9-39
Miller, William J.	Cadomin	79	24-11-39
Millett, Fernley E.	Blairmore	22	30- 9-39
Milner, Robert	Lethbridge	44	30- 9-39
Milo, Michael	East Coulee	65	30- 9-39
Mitchell, Robert	Coleman	20	30- 9-39
Montalbetti, Raif A.	Coleman	32	30- 9-39
Mozell, William J.	Coleman	2	3- 8-46
Muhlberg, E. A.	Mountain Park	125	8-11-44
Munro, James H.	Lethbridge	45	30- 9-39
Murdoch, Horace	Rosedale	56	30- 9-39
Murdoch, Stewart	Coleman	21	30- 9-39
Murdoch, Stewart	Coleman (duplicate)	3	25-10-46
Musgrove, Fred	Canmore	105	23- 9-41
MacDonald, Edwin M.	Bellevue	24	30- 9-39
McGregor, Hector	Lethbridge	36	30- 9-39
McKay, Fred	Blairmore	25	30- 9-39
McLeod, Fraser	Mercoal	74	24-11-39
McMahon, James	Lethbridge	38	30- 9-39
McQuillan, D. J.	Saunders	113	15-10-42
Nelson, Cais E.	Lethbridge	42	30- 9-39
Nelson, Leonard G.	Lethbridge	96	16- 9-40
O'Dwyer, John J.	Midlandvale	89	10- 9-40
Oliphant, Cyril	Carbon	80	21-12-39
Oliver, Kenneth	Taber	109	29- 9-41
Phillips, Robert	Edmonton	111	21-11-41
Porter, Glen	Luscar	77	24-11-39
Quintilio, Daniel	Bellevue	5	18- 7-47
Raisbeck, Luke	East Coulee	64	30- 9-39
Ransom, Albert S.	Nacmine	118	12-11-43
Reishus, Odin K.	East Coulee	63	30- 9-39
Rice, Robert G.	Cadomin	6	18- 7-47
Riordan, Leo	Edmonton	104	1- 5-41
Ritchie, Charles O.	Bellevue	1	18- 7-46
Root, Clarence	Robb	73	24-11-39
Sbora, John	Drumheller	54	30-10-39
Shanks, David S.	Nordegg	13	11-10-39
Skow, Arthur M.	Drumheller	62	30-10-39
Smith, Eric W.	Nordegg	12	11-10-39
Speight, James A.	Midlandvale	58	30-10-39

THE MINES BRANCH

List of Names of Holders of First Class Mine Electricians' Certificates—Continued

Name	Address	Cert. No.	Date of Issue
Stacey, Alfred R.	Hinton	68	30-10-39
Stewart, R. T.	Edmonton	99	14-11-40
Tait, Burton	Edmonton	110	21-11-41
Thackray, John	Shaughnessy	108	29- 9-41
Trysinsky, Stanley	Hinton	103	23-12-40
Vasek, Steven	Coleman	33	30-10-39
Warn, Roland	Bellevue	30	30-10-39
Waters, William J.	Saunders	10	11-10-39
Watson, James S.	Mountain Park	75	24-11-39
Webster, James S.	Shaughnessy	35	30-10-39
Weins, Wm. J.	Drumheller	115	15-10-42
Weston, Clarence E.	Rosedale	66	30-10-39
Wilson, Glen H.	Edmonton	6	27- 9-39
Wilson, John	Nordegg	11	11-10-39
Wilson, Mike	Willow Creek	94	12- 9-40
Wollersheim, Phillip	Drumheller	106	25- 9-41
Worobec, Wm. N.	Bellevue	114	15-10-42
Wyatt, Douglas	Diamond City	43	30-10-39
Wyrostok, Emil	Shaughnessy	8	13- 7-48

* Deceased.

List of Names of Holders of Second Class Mine Electricians Certificates

Anderson, Raymond E.	Shaughnessy	14	13- 7-48
Conlin, Lloyd R.	Drumheller	6	18- 7-47
Farmer, John T.	Edmonton	3	30- 7-46
Galloway, Robert C.	Nordegg	4	19- 7-46
Gitzel, Edward	Luscar	1	18- 7-46
Higgins, Frank	Drumheller	16	13- 7-48
Hill, Lewis E.	Lethbridge	17	13- 7-48
Johnson, John C.	Lethbridge	7	18- 7-47
Kosinsky, Victor	Nordegg	5	18- 7-47
Peebles, James W.	Lethbridge	12	13- 7-48
Sikora, Joseph J.	Coleman	15	13- 7-48
Siray, Louis	Shaughnessy	11	13- 7-48
Smith, Charles A.	Midlandvale	10	12- 2-48
Wyllie, Gordon F.	Shaughnessy	13	13- 7-48
Wyrostok, Emil	Shaughnessy	8	18- 7-47

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 1.

Marks required 120.
Time—3½ hours.

THE COAL MINES REGULATION ACT

	Values
1. What are the provisions of the above Act with reference to hours of employment below ground, and the exceptions thereto:	
1. (b) Times of lowering and raising of workmen, and the interval allowed?	22
2. What does the above Act state with regard to prohibiting the taking in of machinery, tools or explosives to a mine and the provisions made to enable this to be done and to same being used in compliance with the Act?	20
3. State the different accidents that require to be reported by The Mines Act, and the different forms of notice necessary to be sent covering each accident.	24
4. What are the provisions of the above Act as to ropes and chains and re-capping, etc., of ropes?	20
5. What is required by the above Act before the commencement of mining operations where same have not been carried on previously or where the mine has been abandoned?	18
6. What are the requirements of the above Act with regard to the holding of inquests and the various points pertaining to inquests?	20
7. What are the requirements of the above Act regarding the timbering of travelling roads and working places, and the other points with reference to timbering?	24
8. What does the above Act state with reference to interference with the duties of a fire-boss or examiner?	16
9. What is required by the General Rules of the above Act with regard to:	
(a) the inspection of machinery?	
(b) the inspection of shafts?	18
10. What notices require to be exhibited as prescribed by the Regulations under the above Act governing electrical installations in coal mines?	18

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 120.
Time—3½ hours.

GASES, SHOT-FIRING, AND SAFETY LAMPS

	Values
1. State the principal properties of Carbon Dioxide, and indicate how the gas is produced in the course of mining operations. How does carbon dioxide affect the flame of a safety lamp and a Person engaged in Manual Labour?	22
2. The calorific value as given by Thomson is 189.1 kilogram calories per gram molecule for Methane, and 336.6 killogram calorie per gram molecule for Ethane. Assuming the lower explosive limit of Methane to be 5.6% by volume, calculate the lower explosive limit of Ethane.	14
3. How would you guard against Spontaneous Combustion in (a) Coal Pillars, (b) Roadside Packwalls, (c) The Gob, (d) How would you obtain information as to the state of the air within a Sealed off Area?	21
4. A sample of air taken from one of our Mines shows the following Analysis:	
Oxygen	16.97%
Carbon Dioxide	1.28%
Methane	2.26%
Nitrogen	79.48%
Carbon Monoxide	0.01%
Calculate the Black-Damp Percentage in this sample	22
5. Name the Lamps as approved for use where safety lamps are required to be used in coal mines in Alberta under The Coal Mines Regulation Act. Sketch a Flame Type Lamp and an Electric Lamp	20
6. The Specific Gravity of Black-Damp varies with its composition and is usually heavier than air. Determine by calculation the percentage of Carbon Dioxide in the Black-Damp mixture that will give a Mixture lighter than Air. Assume	

- 100 volumes and the Mixture is composed of Carbon Dioxide and Free Nitrogen 20
7. (a) What Percentage of Carbon Monoxide in mine air will be explosive? (b) How many volumes of the gas to air are there when the mixture is at the lower explosive limit? (c) What is the ratio of volume when the mixture is at the higher explosive limit? (d) What is the ratio of volume when the mixture is at the maximum explosive point? 20
8. Describe a Cartridge of Sheathed Explosive and explain the purpose for which it was designed 20
9. In driving a Cross Measure Tunnel in Strata containing a proportion of Silica, state what arrangements you would adopt to eliminate this hazard so that workmen would be safe from contacting Silicosis 21
10. Some time ago it was established that Sand is better than Clay for stemming Shot-holes. What are the important advantages of Sand over Clay? What do you consider is the best way to treat sand so as to make it of a suitable consistency for easy tamping of shot-holes? 20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.

Marks required 120.

Paper No. 3.

Time—3½ hours.

VENTILATION

Values

1. A current of 140,000 cu. ft. of air per min. is delivered at the foot of a slope, and there divided into three splits as follows: Split "A", 7' x 12', 10,000' long; Split "B", 6' x 10', 8,000' long; Split "C", 6' x 12', 7,000' long. (a) Find the natural division of the air. (b) Find the ventilating pressure at the foot of the slope. (c) Find the horsepower on the air at the slope bottom 28
2. Two mines, A and B, are separately ventilated. At Mine A, 250,000 cu. ft. of air per min. is being circulated with a water gauge of 4'', while at Mine B 200,000 cu. ft. of air per min. is being circulated with a water gauge of 3.5''; Density of the air in both cases is 0.076 lbs. per cu. ft. Calculate the Equivalent Orifice of both mines respectively, and state which mine has the lesser resistance 26
3. At a certain mine, a single continuous current of air has been maintained. However, due to the extension of the workings, it is decided to divide the mine into three splits, the division taking place at the bottom of the shaft. The splits are so arranged that the length of each split will be one-third of the length of the original airway, and the cross-sectional area of each split will be the same as the original airway. The same total quantity of air has to be circulated. What will be the water gauge reading after the air has been split, when the original water gauge reading was 6''? 30
4. The effective compression, or depression produced by a fan may be expressed in several ways: in inches of water gauge, in pounds per square foot; or in feet of motive column. (a) Discuss clearly each of these expressions. (b) Sketch and discuss the use of the Pitot tube in connection with ventilation 24
5. Sketch and describe an automatic door to be used in a mine where battery locomotives are in use. If horse haulage was used in conjunction with locomotive haulage, would this same type of door be satisfactory? If not, what changes or adjustments would be necessary so that the door could be operated by both types of haulage? 28
6. If 60,000 cu. ft. of air per min. is passing through an airway under a pressure of 2'' of water gauge, what will be the size of an opening in a regulator placed in this airway to reduce the volume to (a) 30,000 cu. ft. per min., (b) to 15,000 cu. ft. per min.? 18
7. A fan running at a speed of 200 r.p.m. produces a water gauge of 2''. (a) If the speed of the fan is increased to 300 r.p.m., what pressure in inches of water gauge will be produced? (b) If 100,000 cu. ft. of air per min. was produced in the first instance, what quantity of air will be produced after the fan speed is increased? 12
8. The velocity in the main airway of a mine is 10' per second, with a water gauge reading of 1.4''. What would be the water gauge reading for a velocity of 12 feet per second in the same airway? (b) If with a water gauge reading

- of 26" we obtain 38,000 cu. ft. per min., what quantity would we get through the same airway with a water gauge reading of 2"?
9. A mine is ventilated by a fan driven by a 50 H.P. motor. The efficiency of the fan and motor combined is 70%, and the water gauge reading is 3" (three inches). The quantity of air measured on the main return shows 120,000 cu. ft. per min. Calculate the quantity of air being circulated in excess of that being produced by the fan. (b) What are the various circumstances that would cause the above condition? (c) Show by calculation how the various factors could contribute to this increased circulation of air.

12

22

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 4.

Marks required 120.
Time—3½ hours.

PRACTICAL WORK, MINE RESCUE AND FIRST AID

Values

1. (a) State what in your opinion should be the treatment for mine timber intended to be used in the mine, from the time it is cut until set in the mine, the object being preservation.
- (b) Describe the 'Osmos' method of timber treatment, state the principle involved, ingredients, and advantage of this method
2. Make a detailed eight-hour daily report of a duck-bill conveyor operation, showing the time taken by each phase of the operation. The working crew is composed of five men and an examiner. Thickness of seam 5', width of room 27', depth of undercut 6', and the cars hold two short tons of coal
3. Make a comparison of Miner's oil and electric safety lamps from the standpoint of (a) safety, (b) lighting power
4. Nine six-inch aluminum H beams, 22' long, spaced at 2½' centres, are each supported by four screw roof jacks at the face of a duck-bill operation. As the face of the room advances, the first of the nine aluminum beams has to be removed and advanced to the face. Sketch and describe any safe method of timbering that you would order used before removing the aluminum beam, and give your reason for doing so. Rooms 27' wide, the coal seam is 5' in thickness and has a firm uneven sandrock roof
5. Discuss clearly the question of signalling on conveyor faces and describe any method with which you are familiar. State which you consider to be the most efficient system and give your reasons
6. After an explosion, men are found unconscious from the effects of after-damp at a considerable distance from the mine entrance. Describe the first aid treatment and care necessary upon finding the men, and in removing them from the mine
7. Under what conditions would you use for the support of a long-wall working face: (a) ordinary props, (b) tapered props, (c) steel props? What factors govern the distance apart of "face timbers" and cogs?
8. Describe clearly the various causes of accidents at the coal face which may occur to machine attendants
9. It is proposed to sink a vertical shaft from which to work a seam 10' thick pitching 50 degrees. The shaft is to cut the seam at a depth of 500', and it is to be deepened as occasion requires. The strata are soft sandstones and shales. Show what size of pillar you would leave to support the shaft
10. Calculate the thickness of a concrete dam, in feet, required to withstand a vertical head of water equal to 500'. The dam is to be built in a rock tunnel 7' wide, with strong sandrock sides, roof and floor

20

21

20

18

20

22

19

22

20

18

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 5.

Marks required 120.
Time—3½ hours.

MACHINERY

Values

1. The Mean Effective Pressure of the steam is 80 lbs., and the efficiency of the Duplex, 2nd Motion Hoist is 80%. The hoisting rope is 1 inch diameter and

- weighs 1.6 lbs. per lineal foot, and the slope is 2,000 feet long. The weight of the loaded trip including the couplings is 22,000 lbs., and grade of the slope is 20 degrees. Give the dimensions of the hoisting drum and steam cylinders, justifying these sizes by calculations 24
2. If the heating value of the coal is 12,500 British Thermal Units, how many lbs. of water at 60 degrees Fahr. would be converted into steam at 212 degrees Fahr. in the burning of 100 lbs. of this coal, assuming there is no loss of heat in the operation? In what you would consider a good heating plant, using the same coal and the same amount of coal, how many lbs. of water at 60 degrees Fahr. would be raised to steam at 212 degrees Fahr? 20
3. Water is pumped through a shaft 500' deep, measured from the surface of the water in the sump, to the point of delivery at the surface. The water flows into the sump at the rate of 350 U.S.A. gallons per min., the pump operates 6 hours per day, the efficiency of the pump is 70% and efficiency of motor is 90%. Find the horse-power of the motor 20
4. What is meant by:
 (a) Isothermal Compression?
 (b) Adiabatic Compression?
 (c) Why are compressors provided with a cooling system?
 (d) 500 cubic feet of air at atmospheric pressure, and at a temperature of 40 degrees Fahr., is compressed to a volume of 100 cubic feet, the final temperature of which is 300 degrees Fahr. What is the Final Pressure? 24
5. A wire rope weighing 1.6 lbs. per lineal foot has 6 strands of 7 wires each, the wires being 0.112 inches in diameter. The steel in the wires has a breaking strength of 90 tons per sq. inch. Would you regard the rope suitable for a loaded cage the total weight of which is 5 tons, and the shaft being 900 feet deep? Men are being hoisted daily. Show your calculations 18
6. Show by means of a rough sketch how you would arrange a number of pulleys so that you may be able to lift weights in the machine shop with a pull equal to 25% of the weight lifted 20
7. (a) What is a Syphon?
 (b) Water is to be passed from one elevation to a lower elevation over a hump, the vertical height of which is 36'. The difference in elevation of the two bodies of water is 140'. Would a syphon under these circumstances work efficiently? Prove your answer by sketch and calculations 20
8. What grade would you drive cross-pitch entries in a pitching seam so as to cause the draw-bar pull on the ingoing empty trip to equal the draw-pull on the outcoming loaded trip? The co-efficient of friction of the cars used is 1/80. Sum of weights of each empty car and a coupling is 1,500 lbs. The amount of coal carried in each car is 4,000 lbs. 20
9. The cost of sinking a shaft increases as the depth. Each 20 feet of sinking cost 5% more per lineal foot than each preceding 20 feet. If the first 20 feet cost \$8.00 per lineal foot, what is the cost per lineal foot of the last 20 feet in the sinking of a shaft 500 feet deep? 16
10. (a) Write down the formula of "Ohm's Law", and show its various transpositions.
 (b) If 120 amperes is flowing against a resistance of 3.8 ohms, find the power used: (1) in Watts? (2) in Horse-power? 18

GOVERNMENT OF THE PROVINCE OF ALBERTA
 MINES BRANCH
 EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
 June 1, 2 and 3, 1948

FIRST CLASS CERTIFICATES

Marks obtainable 200.

Marks required 120.

Paper No. 6.

Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. The following are the notes of an underground traverse in a flat seam:

Station	Bearing	Distance
A—B	S 63° 30'E.	250 feet
B—C	S 34° 30'W.	500 feet
C—D	N. 89° 15'E.	200 feet

It is proposed to drive a new roadway in a direct line between Stations A and D, and to drive the roadway simultaneously from A and from D, and in both directions from a point X where the line AD intersects the line BC. Calculate

- (a) the bearing of the line AD, (b) the total length of the new roadway AD, and (c) the distance BX 50
2. A circular pond at a colliery has a maximum capacity of 110,000 Imperial gallons and the depth of water when full is 9'. It is constructed of concrete, the inside face is vertical, the batter outside is 1 in 3 from the vertical, and the thickness at the top is 9 inches. (a) What is the inside diameter of the pond? (b) What is the outside diameter of the concrete wall level with the bottom of the pond? 30
3. Give the names of the geological formations from which coal is being mined in Alberta. Give typical analysis of each. State characteristics and for what uses each class of coal is specially suitable 30
4. Work out the following level notes, stations being 100' apart, and state gradient from Sta. 1 to Sta. 10:
- | Station | BackSight | Int. Sight | Fore Sight | Elevation |
|---------|-----------|------------|------------|-----------|
| 1 | 3.97 | | | 2130.29 |
| 2 | | 8.42 | | |
| 3 | 1.07 | | 10.28 | |
| 4 | 0.96 | | 9.99 | |
| 5 | | 5.42 | | |
| 6 | | 3.81 | | |
| 7 | 1.70 | | 12.20 | |
| 8 | | 6.02 | | |
| 9 | 3.21 | | 9.78 | |
| 10 | | | 6.91 | |
5. What area is represented, on a mine plan drawn to a scale of 100' to 1 inch, by a trapezium A—B—C—D, the sides of which scale 1.25'', 2.5'', 2.1'', and 1.3'', Angle BAD being 78°? 25
6. The representative fraction marked on a plan is $\frac{1}{100,000}$. How many miles are represented by 1 inch on the plan? 20
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper 5
8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper 5

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

SECOND CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 1.

Marks required 100.
Time—3½ hours.

THE COAL MINES REGULATION ACT

- | | Values |
|---|--------|
| 1. What are the provisions of the above Act with reference to the employment of boys, girls and other persons in or about coal mines? | 20 |
| 2. What are the provisions of the above Act with reference to payment of wages? | 22 |
| 3. What are the provisions of the above Act with reference to: | |
| (a) appointment of examiners or fire-bosses; | |
| (b) districts for examiners? | 22 |
| 4. What are the provisions of the above Act as to outlets to the surface, and to agreements regarding such outlets? | 22 |
| 5. What are the provisions of the above Act regarding the equipment of cages and the precautions covering the raising and lowering of men or materials in same? | 20 |
| 6. What are the provisions of the above Act regarding ventilation, and give the points at which it requires same to be measured? | 20 |
| 7. What are the provisions of the above Act regarding timbering in mines? | 22 |
| 8. What do the General Rules of the above Act prescribe regarding the inspection of machinery and shafts? | 16 |
| 9. What do the Regulations made under The Mines Act specify: | |
| (a) regarding shots when fired electrically; | |
| (b) regarding delay action fuses; | |
| (c) gasoline driven and internal combustion engines? | 16 |
| 10. What do the Regulations made under the above Act state regarding the firing of shots in loose rock or coal? | 20 |

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

SECOND CLASS CERTIFICATES

Marks obtainable 200.

Marks required 100.

Paper No. 2.

Time—3½ hours.

GASES, SHOT-FIRING, SAFETY LAMPS AND VENTILATION

	Values
1. What is meant by the diffusion of gases? State the Law of the Diffusion of Air and Gases. What is the rate of Diffusion of Methane into Air?	20
2. What is the basic principle of the flame type safety lamp? Name six essential features of a good safety lamp. Make a neat sketch of the Wolf Flame type safety lamp	22
3. The weight per cubic foot at standard conditions of the various gases are:	
Air	0.0765 Pound
Methane	0.0428 Pound
Carbon Monoxide	0.0740 Pound
Carbon Dioxide	0.1170 Pound
Calculate the Specific Gravity of CH ₄ , CO, CO ₂ from the weights given	18
4. What are the advantages of frequently splitting the air current? What is the effective limit of splitting the air? What is required to proportion the quantity of air to the need of each split?	18
5. During recovery work after an explosion, men have been found alive but unconscious by a team wearing self-contained breathing apparatus. Assuming the team is 1,000 feet from the base. What steps should be taken?	20
6. We have 50,000 cu. ft. of air delivered by a fan driven by a D.C. motor consuming 43.88 amperes at 250 volts. It has been decided to drive the fan by a 3 phase A.C. motor consuming 29.84 amperes at 250 volts, with a power factor of 0.85. Assuming the machinery to have the same efficiency in each case, will there be more or less air delivered by the fan	22
7. What is a permitted explosive? Name the permitted explosives for use in Alberta Mines under The Coal Mines Regulation Act. State the maximum charge allowed in a shot-hole for each explosive	18
8. Give the names, Chemical Symbols, Specific Gravities, and the Densities of the principal gases found in coal mines. State which are explosive and which are poisonous	20
9. Describe in detail the process of preparing and firing a shot at the coal face. What dangers have to be guarded against? How many shots would you consider the maximum for one man to fire in a level seam five feet thick in eight hours?	22
10. Explain the meaning of the terms: Ventilation Pressure, Water Gauge, and resistance of air as used in mine ventilation. Explain the formula $pa = ksv^2$	20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

SECOND CLASS CERTIFICATES

Marks obtainable 200.

Marks required 100.

Paper No. 3.

Time—3½ hours.

PRACTICAL WORK AND FIRST AID

	Values
1. At a depth of 300 yards from the surface, there is an isolated area of old workings full of water which requires to be tapped and drained, the inclination of the seam being 14 degrees. The working levels are to the dip of the old workings. Sketch and describe how you would approach the old workings to tap and drain off the water	22
2. Describe with sketches how you would replace broken timbers in a branch haulage roadway which is heavily weighed. What precautions would you take to reduce the possibility of accidents while doing so?	20
3. If in working a longwall face you find the coal on the face too much crushed, in what way could you reduce the superincumbent pressure on the coal?	20
4. In an 8-hour shift 14 men strip a machine cut conveyor face 330 feet in length in a seam 4½ feet thick with an undercut of 3½ feet. What average weight of coal does each man fill and what weekly wage does each man earn if the	

- filling rate is 28 cents per ton less $7\frac{1}{2}$ per cent. for explosives? Allow 5 working days per week and assume the specific gravity of the coal to be 1.28 18
5. Sketch and describe any good appliance which is used for withdrawing timber from gobs 18
6. In working a seam of coal subject to spontaneous combustion, what special precautions would you take and what instructions would you give to your officials and workmen: first to prevent gob fires, second to ensure early detection of heating? 22
7. A driver has been crushed between two cars and received a fractured pelvis. What first aid treatment would you give and how would you transport the injured person to the outside of the mine? 18
8. A seam of coal 7 feet thick with very strong roof and pitching 15 degrees worked on the advancing system by slopes and headways and rooms and pillars, has had trouble with squeeze and creep on the roadways when pillar extraction has commenced. Describe fully how you would overcome and prevent this condition. Rooms are worked across pitch 24
9. Describe with sketches how you would place sets of timber on an entry where the seam is inclined 24 degrees, to withstand severe side pressure, and how you would set props with cap pieces in rooms driven up the full pitch in the same seam 18
10. Describe with sketches the operations of sinking and timbering a rectangular shaft through 95 ft. of shale. The shaft is to be 17' x 9' in the clear and divided into two compartments 20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

SECOND CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 4.

Marks required 100.
Time—3½ hours.

MACHINERY

- | | Values |
|--|--------|
| 1. A belt driven fan has a speed of 228 revolutions per minute. The pulley of fan-shaft is 30 inches in diameter, and the pulley on motor-shaft is 12 inches in diameter, and the motor-shaft rotates 600 times per minute.
(a) Show by calculation to what extent the belt is slipping.
(b) Make a rough sketch of section of pulley-rim, showing particularly the feature that causes the belt to stay on the pulley | 22 |
| 2. On what type of pumps are air-vessels used?
What is the purpose of the air-vessel?
Where is the air-vessel placed on pump equipment? | 15 |
| 3. On a slope of 20 degrees the maximum of loaded cars hoisted per trip is 6, and the maximum weight of each is 6,000 lbs. The weight of rope and couplings amounts to 10% of the total weight of loaded trip, and frictional resistance is to be ignored. The efficiency of hoisting engine is 80%, and trip speed is 6 miles per hour. What is the horse-power of the Hoisting Engine? | 22 |
| 4. In considering the following systems of rope-haulage,
(a) Direct rope haulage,
(b) Main and tail rope haulage,
(c) Endless rope haulage,
give reasons as to when and why you would adopt each one of these systems rather than the other two systems | 22 |
| 5. State the reasons for limiting the vertical distance from water in sump to pump inlet.
State the reasons for having the steam (or compressed air) end, no less than a pre-determined diameter, in a pump of a reciprocating type | 22 |
| 6. A boom is 12 feet long and 8 inches square. It has been decided to use a boom of twice the strength by increasing its size, but the length is to be unchanged. What size square timber will be used? | 20 |
| 7. (a) What is a British Therman Unit?
(b) What is sensible-heat?
(c) What is latent-heat? | 22 |
| 8. (a) What is an oil-switch?
(b) Where are oil-switches used in mines?
(c) Why are oil-switches used in mines? | 15 |
| 9. What quantity of free-air at a pressure of 15 lbs. per square inch and at a | |

THE MINES BRANCH

- temperature of 40 degrees Fahr. will produce 100 cubic feet of compressed air at a pressure of 75 lbs. per square inch, and a temperature of 60 degrees Fahr.?
10. Give a description of a direct current dynamo having an output of 20 kilowatts and arranged to be driven by belt. What would be the H.P., and given a voltage of 250 volts, what would be the current?

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 1, 2 and 3, 1948

SECOND CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 5.

Marks required 100.
Time—3½ hours.

SURVEYING

Values

- Plot the following survey with a protractor to a scale of 1 inch equals 100 feet, and find the length and bearing of the closing line.

Station	Horizontal Distance	Bearing
1—2	220 feet	N. 70°00'E.
2—3	90 feet	N. 68°00'E.
3—4	240 feet	N. 20°00'W.
4—5	230 feet	S. 80°00'W.
5—6	160 feet	S. 10°30'W.
- Define the following terms, using sketches to illustrate your answer:

(a) Normal fault.	(d) Washout.
(b) Reverse fault.	(e) Downthrow.
(c) Dyke.	(f) Upthrow.
- A slope falls 40 feet in a distance, measured on the inclination, of 380 feet.
 - Find the angle of inclination.
 - Find the horizontal distance that should represent this on a plan drawn to a scale of 50 feet to 1 inch.
- An 8 ft. by 10 ft. slope pitching 15° is flooded for a distance of 750 ft. from the face. How long would it take a pump to unwater this slope, pumping 90 gal. net per minute?
- Complete the following level notes, and state gradient from Stations 1 to 10.

Station	Back Sight	Int. Sight	Fore Sight	Elevation	Dist. in ft.
1	1.43			348.22	
2		4.61			45
3	0.83		16.54		85
4	0.24		12.16		80
5		10.34			40
6		2.16			90
7	14.61		1.43		120
8	15.78		2.18		50
9		16.12			80
10			4.97		50
- A mine dam is 12 ft. wide and 6 ft. high; the vertical head of water above the dam is 95 ft. What is the total pressure on the face of the dam?
- A flat seam of coal is 9 ft. thick, with two partings, which total 1 ft. 3 in. thick, the Specific Gravity of the coal is 1.26. Find the number of tons per acre in the seam.
- What do you understand by:
 - Magnetic declination,
 - Dip of the magnetic needle?

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

THIRD CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 1.

Marks required 100.
Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

- What are the requirements of Section 149, Rule 19, relating to the use and care of safety lamps?

2. What does Section 91 say regarding a hoisting rope showing signs of weakness?	10
3. State the provisions of Section 135 regarding man-holes on certain levels, entries or tunnels	30
4. What are the provisions of Section 145 relating to explosives?	35
5. What does Section 149, Rule 2, say regarding fencing of machinery?	15
6. State the provisions of Section 61 regarding appointment of examiners, their duties, qualifications, and the division of a mine into districts for the performance of their duties	30
7. What are the provisions of Section 149, Rule 4, relating to inspection of machinery, etc.?	15
8. Write an imaginary report you would make after examining a mine as an examiner	25
9. State the provisions of Section 127 relating to the inspection of airways by an examiner	10

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

THIRD CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 100.
Time—2 hours.

VENTILATION

	Values
1. What condition would make a good mine door preferable to the brattice swing cloth? In the construction of a mine door, what points would receive your attention?	20
2. Under what atmospheric conditions does mine roof fall most, and why?	22
3. (a) Does a high water-gauge indicate that there is a large volume of air circulating the airways?	
(b) What does a low water-gauge indicate when there is a comparatively large volume of air circulating the airways?	
(c) If the mine water-gauge shows a decrease of 1 inch from normal, what would this indicate? Discuss (a), (b) and (c) briefly	24
4. How much air should be supplied to a district giving off 330 cubic feet of gas per minute, and where 62 men and 5 horses are employed on one shift?	20
5. Name six instruments used in connection with the ventilation of coal mines	18
6. What instrument would you use, and how would you make a test to determine the quantity of air entering your district?	22
7. The dimensions of an airway are $9' \times 7\frac{1}{2}'$, and the airway is 2,270 feet long. Calculate the rubbing surface of the airway	20
8. During your inspection of a district in which methane gas is given off freely from the faces, but which is readily diluted by an ample air current, several miners suddenly complain that they are receiving an insufficient supply of air, and you notice a $\frac{1}{2}$ inch cap on the flame of your safety lamp. What would you do?	34
9. When should the regulation of air currents be resorted to?	20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

THIRD CLASS CERTIFICATES

Marks obtainable 200.
Paper No. 3.

Marks required 100.
Time—1½ hours.

PRACTICAL WORK

	Values
1. Just before making your regular inspection of the mine you discovered a door had accidentally been left open, thus destroying the ventilation of the mine. Say how you would make your inspection; there are no men in the mine	22
2. Show with the aid of sketches, how you would timber a room 26 ft. wide having a weak roof which is subject to slips and pot-holes, in preparation for an electric undercutter. The safety of the machinemen is of utmost importance. The seam is 6 ft. thick, lying flat	24

3. How would you render first-aid treatment to a workman suffering from shock due to an accident?	20
4. In your opinion would a good system of timbering prevent accidents? Say why	22
5. A mine timber 2 ft. square and 20 ft. long weighs 2,000 lbs. Find its specific gravity	18
6. Show by sketch how you would timber an entry 11 ft. wide across the floor and 8 ft. high. The coal seam is 6 ft. thick pitching 60 degrees. The seam has a strong sandrock roof and floor	24
7. After burning a certain kind of coal containing 12.5 per cent. ash, the weight of the residue was found to be 720 lbs. How many short tons of coal were burned?	20
8. To what causes can be attributed the heaving of a soft floor, observed in some mines, and how can a difficulty of this nature be avoided?	24
9. Sketch and describe a battery suitable for pillar work in a 35 ft. bituminous seam, pitching 80 degrees. Angles are driven 7 ft. by 9 ft. on the hanging wall on a 30 degree pitch. Show how the battery uprights and cross members are supported?	26

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

THIRD CLASS CERTIFICATES

Marks obtainable 200. Marks required 100.
Paper No. 4. Time—2 hours.

MINE GASES, SHOT-FIRING, EXPLOSIVES AND SAFETY LAMPS

	Values
1. Which of the following mine gases are chemical compounds and which are mixtures: Carbon Dioxide, Blackdamp, Sulphuretted Hydrogen, Afterdamp? Point out the difference between chemical compounds and mixtures	30
2. State how you would recover the explosives from a shot-hole where the shot had missed fire	15
3. A sample of mine air contains 7% Methane, 5% Carbon Dioxide and 88% pure air. Will the mixture be heavier or lighter than air and what will be its specific gravity?	15
4. What is the principal of the Burrel gas indicator as used for taking Methane gas percentages in a mine?	25
5. Are there any conditions under which the flame of a flame type safety lamp will pas through the gauze of the lamp? Explain fully	25
6. Describe the various circumstances under which an explosive is most likely to give off flame	25
7. Describe clearly various suitable methods of bringing down coal at the face apart from the use of explosives. What are the disadvantages of using mechanical methods for this purpose?	30
8. Name the explosives on the permitted list	15
9. With a temperature of 32 degrees Fahrenheit, what is the weight of a cubic foot of Methane, taking the barometer reading as 30 inches?	20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 3, 1948

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200. Marks required 120.
Paper No. 1. Time—3½ hours.

SURVEYING

1. Find the bearing and length which have been omitted from the following tabulated notes:		Values
Side	Bearing	Length
AB	N. 30°12'E.	150 feet
BC	S. 77°18'E.	286 feet
CD	S. 5°26'E.	102 feet
DE	S. 45°15'W.	?
EA	?	340 feet..... 45

2. What do you understand by Legal Subdivision, Section, Township, Range, Meridian, Correction Line? 25
3. A shaft is sunk 20 feet in diameter and 200 yards deep; the volume of material is increased by 30 per cent. after excavation as compared with the original solid contents. The debris is piled up in the form of a square pyramid, the sides of which are inclined to 40 deg. to the horizontal; calculate the area of the base of the pyramid 35
4. The debris from a colliery has been laid down on level ground in two conical heaps, the centres of which are 160 ft. apart. The ground covered by the heaps is in the form of two intersecting circles each 200 ft. in diameter. Calculate the area of ground covered by the debris in acres to three places of decimals 35
5. A boiler feed tank is constructed in the form of a cylinder with hemispherical ends. The internal diameter is 5 ft. 6 in., and the total internal length is 23 ft. 6 in. Calculate in cubic feet and in gallons the volume of water contained when the tank is full. It is proposed to replace the above tank by a tank having a square base and vertical sides 6 ft. deep, but with a capacity, when full, of three times the original. Find the dimensions of the new tank required 35
6. Oral Examination 20
7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act. must be handed in to the presiding examiners with the answers to this paper 5

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 3, 1948

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 120.
Time—3½ hours.

LEVELLING AND GEOLOGY

Values

1. Levels along a roadway between two points A and B were taken as follows: The instrument was set up and sights were taken on the point A and on points 1, 2, and 3 with readings as follows: A—3.79, 1—4.02, 2—4.20, and 3—4.36. The instrument was then moved forward and sights taken on the points 3, 4, 5, and B, the readings being 3—5.30, 4—5.20, 5—4.98, and B—4.82. Assume that the point A has an elevation of 100.00 feet. Tabulate these notes in proper form and work out the elevations of the remaining stations. If all the stations are 100 feet apart, calculate the fill in cubic yards required to make a uniform grade between the points A and B, the width of the roadway being 8 feet 45
2. A piece of coal weighs 960 grains in air, and 164 grains in water. What is the Specific Gravity of the coal? 25
3. In order to ascertain the height of a chimney A, an angle of elevation was taken from a point B to the top of the chimney and found to be $46^{\circ}34'$. Another point C was set up so that the angle ABC was $90^{\circ}00'$ and the distance BC 330 ft. The angle of elevation from C to the top of chimney was found to be $25^{\circ}24'$. The ground levels are the same, at the base of the chimney and at B and C; the height of the instrument was 4.6 ft. in each case. Find the height of the top of the chimney above ground level 35
4. Into what three main groups may the rocks of the earth's surface be divided, and what are the distinctive features of each group? 30
5. Work out the following notes and calculate the elevations of all stations. Elevation of Station 1 is 1000.00. All sights were taken on the station.

Station	Verticle Angle	Slope Distance	H.I. below Sta.
1—2	$-32^{\circ}18'$	230.6 feet	2.30 feet
2—3	$-27^{\circ}46'$	209.3 feet	1.75 feet
3—4	$-30^{\circ}05'$	148.2 feet	0.75 feet
4—5	$-29^{\circ}46'$	169.5 feet	0.95 feet
5—6	$-21^{\circ}21'$	83.4 feet	2.15 feet

 40
6. Oral Examination 20
7. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper 5

THE MINES BRANCH

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

MINE ELECTRICIANS' CERTIFICATES—FIRST CLASS

Marks obtainable 200.
Paper No. 1.

Marks required 120.
Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

1. Explain the following electrical terms:
 - (a) Metallic Covering;
 - (b) Pressure;
 - (c) Open Sparking;
 - (d) Electrician;
 - (e) Earthed;
 - (f) Concentric System 30
2. What notices of intentions are required to be sent to the District and Electrical Inspectors? 25
3. What are the requirements of Regulation (m) of the Electrical Regulations with regard to all cables other than flexible cables for portable apparatus and signalling wires? 45
4. What does Regulation (h) of the Electrical Regulations say regarding the earthing of machinery, cables and conductors, etc.? 25
5. What are the requirements of regulation (o) of the Electrical Regulations with reference to every person appointed to work, supervise, examine or adjust any apparatus? 55
6. What are the requirements of Regulation (e), paragraphs 1 and 2, of the Electrical Regulations with reference to the providing of means of telephonic or other equivalent means of communications, and the provisions required to be made for the extinguishing of fires, respectively? 20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

MINE ELECTRICIANS' CERTIFICATES—FIRST CLASS

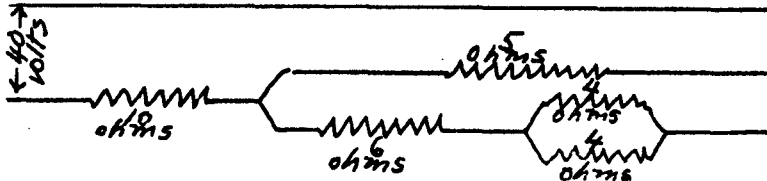
Marks obtainable 200.
Paper No. 2.

Marks required 120.
Time—2 hours.

THEORY

Values

1. What would be the voltage drop on a two-wire direct current line 1,000 feet long, where the applied voltage is 250 volts, the current 100 amperes and the conductor size 66,000 circular mils? 30
2. Find the current in the circuit below, with resistances as illustrated; applied 40 volts 30



3. What size of rubber covered conductors, in circular mils, should be used to transmit 50 horse-power at 440 volts, on a three-wire, three phase line 800 feet long, with a 10 per cent. voltage drop? The power factor is .85. Show how you arrive at answer 40
4. Of what does current rectification consist? Explain the different methods used 30
5. At what current value would you set the overload relays for the following squirrel cage, three phase induction motor: horse-power 25, voltage 220, efficiency 80 per cent., power factor .85? Show how you arrive at answer 40
6. The voltage of a three phase circuit is 220 volts, the current 400 amperes. Make a sketch of the meter loop connections for installing a watt-hour meter 30

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

MINE ELECTRICIANS' CERTIFICATES—FIRST CLASS

Marks obtainable 200.
Paper No. 3.

Marks required 120.
Time—3½ hours.

PRACTICAL WORK

	Values
1. Two transformers, 2300 to 220 110 volts, are to be installed to supply a 3 phase motor and lighting in a building. Show by means of a diagram how you would hook up the transformers. Show also what you would ground	20
2. Describe fully the faults which might develop in, or in connection with, a magneto type telephone	25
3. Make a sketch of a lamp ground detector for use on a 3 phase, 3 wire, low voltage circuit and show which lamps will be bright and which will be dark when a wire is grounded	20
4. Describe in detail how you would connect up two sections of 3,000 volt, lead sheathed, steel wire armored cable, in a safety light mine	20
5. How would you test the insulation of a 75 horse-power, 550 volt motor, and what minimum insulation value would you consider satisfactory before putting the motor into service?	20
6. Explain how you would test a director current armature for (a) Open circuit, (b) Short circuit, (c) Grounds	15
7. Describe briefly the construction of a capacitor and explain its function	10
(a) If you were given a used capacitor to install, how would you test the same to determine if it was in good conditions?	10
8. (a) If the field of a shunt wound direct current motor became open, what effect would it have on the motor?	10
(b) What would be the effect of using a 25 cycle motor on a 60 cycle line?	10
9. Explain, using a sketch, how to phase out and parallel two three phase 2300 volt lines	20
10. A used transformer is to be added to two single phase transformers already in use in a three phase bank. What checks or tests would you make before putting same into service?	20

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH
EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

MINE ELECTRICIANS' CERTIFICATES—SECOND CLASS

Marks obtainable 200.
Paper No. 1.

Marks required 100.
Time—3½ hours.

THE COAL MINES REGULATION ACT

	Values
1. What notices shall be exhibited where necessary?	22
2. Explain the following electrical terms: (a) Use of Electricity; (b) Danger; (c) Switchgear; (d) Medium Pressure; (e) Authorized Person	18
3. Under what condition is the use of electricity prohibited in any part of a mine? In cases of a difference of opinion in this matter, how may same be settled? (Electrical Regulation (a))	12
4. What are the requirements of Regulation (j) of the Electrical Regulations with regard to the transformation of electricity?	18
5. What are the requirements of the Electrical Regulations with regard to annual returns and plans?	18
6. What are the requirements of Regulation (f) of the Electrical Regulations in connection with danger or mechanical damage to apparatus?	22
7. What does Regulation (t) of the Electrical Regulations state in connection with haulage by electric locomotives?	10
8. What are the requirements of Regulation (n) of the Electrical Regulations with reference to flexible cables for portable apparatus?	20

9. What are the requirements of Regulation (o) of the Electrical Regulations in connection with the appointment and responsibilities of the electrician? 30
10. What additional requirement shall be observed in locations where gas and coal dust, although not normally present, is likely to occur in quantity sufficient to be indicative of danger? (Electrical Regulation (p)) 30

GOVERNMENT OF THE PROVINCE OF ALBERTA
MINES BRANCH

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
May 25, 1948

MINE ELECTRICIANS' CERTIFICATES—SECOND CLASS

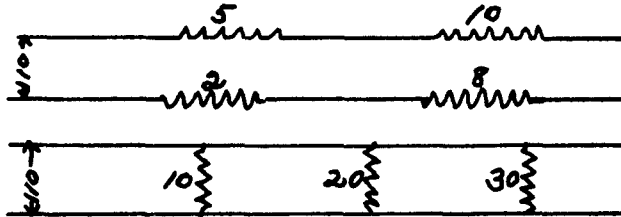
Marks obtainable 200.
Paper No. 2.

Marks required 100.
Time—3½ hours.

THEORY AND PRACTICAL WORK

Values

1. Electric current may be "Direct Current" or "Alternating Current". What is the difference between these two, and how do direct current motors differ from alternating current motors? 20
2. Sketch a simple relay circuit to be used in connection with a signal bell circuit 20
3. The 110 volt circuits illustrated below have resistances in ohms, as marked, one in series and one with resistances in parallel. What is the current in each circuit?
(a) 15
(b) 15



4. Explain what the following instruments are for and, using a sketch, show how you would use them: (a) Voltmeter, (b) Ammeter, (c) Megger 20
5. What would be the horse-power of a direct current motor drawing 30 amps at 250 volts? 20
6. Explain why no fuses are allowed in the neutral of a three wire single phase lighting circuit 15
7. It was reported that a certain magneto type telephone in the mine was not working properly. A person could hear over the phone but could not be heard by persons at other phones. What troubles would you look for? 20
8. Explain quite fully what practical methods you would suggest to reduce the liability of accidents from the use of electricity in and about mines 20
9. In inspecting Permissible Electrical Mining Equipment in a mine, name five points you would check on 15
10. Explain how you would phase out and parallel two three phase, 200 volt lines. 20

LIST OF TRADE NAMES UNDER WHICH COAL IS SOLD, FROM MINES
OPERATING AT DECEMBER 31, 1948

Mine No.	Name of Operator	Registered Trade Name and Address
Ardely Area:		
255	R.R. Straub	Conger Coal Alix
809	J. W. Sissons	Pearl of Furnace Coal Alix
969	Karl Schnepf	Great Bend Coal Delburne
1018	A. Johnson	Dixie Coal Ardley
1135	C. Kurp	Kurp's Coal Delburne
1488	Charles M. Russell	Eclipse Coal Alix
1586	Kehl & McGladrie	Valley Coal Nevis
1605	S. S. Munro & Son	Shurheat Coal Ardley
1613	Wm. Barrell & Auviagne	B. & A. Coal Ardley
1663	Wm. G. Martin	Martin Coal Delburne
1673	D. L. Gordon	Gordon Coal Warden
1675	John Lynass	Glenniffer Coal Delburne
BigValley Area:		
864	Big Valley Coal Co.	Quality Coal Big Valley
1254	Robert Campkin	Thomson Coal Lousana
1661	Robert Campkin & Sons	The Campkin Mine Lousana
Brooks Area:		
1404	Birnwei Coal Ltd.	Birnwei Coal Eyremore
1672	J. D. Vogel	Brooks
Camrose Area:		
241	Joe Proskow	Preskow Coal Dinant
724	S. H. Burnstad	Burnstad's Coal Ohaton
1420	Red Flame Coal Co.	Red Flame Coal Round Hill
1524	George Shute & Partners	Demay Coal Dinant
1603	Alberta Coal Co. Ltd.	Camrose Coal Camrose
Carbon Area:		
53	A. Fox	Carbon Sunrise Coal Carbon
194	Kneehill Coal Co. Ltd.	Kneehill Coal Three Hills
384	Inland Coal Co. Ltd.	Kneehill Valley Coal Three Hills
690	J. W. Rynning	Ant Hill Coal Rowley
710	East Trochu Coal Mine	Troalta Coal Trochu
817	Ben Pickering	Orkney Coal Ghost Pine Creek
921	E. Reissig	Meadow Bank Coal Trochu
1060	East Carbon Coal Co.	Reliable Coal Carbon
1226	J. A. Ginther & Sons	Campbell Coal Trochu
1283	A. E. Staite	Antler Coal Trochu
1359	Balogh Brothers	Arctic Coal Carbon
1499	Nottall & Davidson	Fire King Coal Three Hills
1600	Peerless Coal Co.	Peerless Carbon Coal Carbon
1621	M. E. Morel	Black Jewel Coal Ghost Pine Creek
1676	D. W. Davidson	Black Star Coal Three Hills
Cascade Area:		
2	The Canmore Mines Ltd.	Canmore Smokeless Coal Canmore
2	The Canmore Mines Ltd.	Canmore Briquettes Coal Canmore
1244	Frank Wheatley & Sons	Wheatley Bros. Coal Banff
1667	Kananaskis Exp. & Dev. Co.	Cascade Coal Seebe
Castor Area:		
251	Joe Trylik	Diamond G Coal Heisler
291	James Chiswick	Sunset Coal Gadsby
447	J. R. James & E. J. Boyce	Ever Ready Coal Forestburg
615	Komperdo & Partners	Riverside Coal Heisler
666	Howlett & Osmack	K.M. Coal Forestburg
902	O. V. Remillard	Remillard Coal Castor
911	Wm. Strickland	Palace Coal Heisler
953	Wiltse & Krammer	Battle River Coal Forestburg
1046	Alberta Coal Co. Ltd.	Cordel Coal Halkirk
1062	Charles Strader	Esperanze Coal Halkirk
1232	J. H. Ainsworth	Ainsworth Coal Halkirk
1237	Davies & Doan	Ruby Glow Coal Halkirk
1248	Thomas Mitchinson	Mitchinson Coal Donalda
1417	James Easton	Burn-Rite Coal Castor
1435	G. Otteson & J. Tucker	Rosebush Coal Edberg
1441	Leonard Buckle & Brothers	Black Emerald Coal Donalda
1572	Alvin Annonson & J. Radford	Black Eagle Coal Donalda
1578	Bish Brothers	Bish Coal Forestburg
1587	J. J. Mills	Eagle Coal Heisler
1608	Castor Coal & Construction Co.	Tower Coal Castor
1614	A. Sorken	Radar Coal Killam
1634	F. N. Wiltse	Canyon Mine Coal Halkirk
1639	A. T. Miner	Miner's Coal Rosalind
1642	J. Bradley & A. O'Brien	Active Coal Halkirk
1650	Jones & Deen	Mother's Pride Coal Forestburg
1665	C. R. Grettum & M. J. Sand	Edberg Coal Edberg
1674	Michael & Martin Wisla	Rosalind Coal Rosalind
1677	John C. & William R. Reed	B.B. Coal Edmonton
Champion Area:		
136	George Rhodes	Therriault Coal Champion
1509	P. Fontana & Sons	Champion Coal Champion
1565	Mike Popovich	Ellis Coal Champion

Mine No.	Name of Operator	Registered Trade Name and Address
Coalspur Area:		
769	Sterling Collieries Ltd.	Sterling Coal Sterco
771	Foothills Collieries Ltd.	Foothills Coal Foothills
775	Lakeside Coals Ltd.	Balkan Coal Robb
775	Lakeside Coals Ltd.	Minehead Inferno Coal Robb
846	McLeod River Hard Coal Ltd.	McLeod River Hard Coal Mercoal
1002	Coal Valley Mining Co. Ltd.	Cova Coal Coal Valley
1157	Bryan Hard Coal Co. Ltd.	Bryan Mountain Hard Coal Robb
Crowsnest Area:		
87	West Canadian Collieries Ltd.	Bellevue Coal Bellevue
88	International Coal & Coke Co. Ltd.	International Coal Coleman
133	Hillcrest-Mohawk Collieries Ltd.	Hillcrest-Mohawk Coal Bellevue
199	Beaver Mine Coal Co.	Beaver Mine Coal Beaver Mines
396	West Canadian Collieries Ltd.	Greenhill Coal Blairmore
1584	West Canadian Collieries Ltd.	Adanac Coal Bellevue
Drumheller Area:		
346	Rosedale Calleries Ltd.	Rosedale Coal Rosedale
367	Midland Coal Mining Co. Ltd.	Midland Coal Drumheller
367	Midland Coal Mining Co. Ltd.	Mercury Coal Drumheller
402	Red Deer Valley Coal Co. Ltd.	Glocoal Drumheller
422	Commander Coal Mine	Commander Coal Drumheller
436	Rosedale Collieries Ltd.	Star Coal Aerial
620	Newcastle Collieries Ltd.	Newcastle Coal Drumheller
728	Maple Leaf Coal Co.	National Coal Drumheller
1258	Brilliant Coal Co.	Brilliant Coal Drumheller
1299	Sask. Federated Co-ops. Ltd.	Empire Coal East Coulee
1421	Hy-Grade Coal Mining Co. Ltd.	Hy-Grade Coal Drumheller
1436	Royalty Coal Mining Co.	Royalty Coal Drumheller
1484	Regal Coal Co. Ltd.	New Wildfire Coal Drumheller
1491	Murray Collieries Ltd.	New Murray Coal Drumheller
1493	Western Gem & Jewel Collieries	Cambrian Coal Cambria P.O.
1511	Aetna Coals Ltd.	Aetna Coal Wayne
1515	T. Holt & H. Shoults	Willow Creek Best Coal Delia
1520	The Minute Coal Co. Ltd.	Good Quality Coal Drumheller
1544	Wayne Co-ops. Ltd.	Castle Coal Wayne
1570	Sovereign Coal Mining Co. Ltd.	Sovereign Coal Wayne
1573	Monarch Coal Mining Co. Ltd.	Western Monarch Coal Drumheller
1583	John Hamilton	Reliance Coal Delia
1589	Arcadia Coal Mines Ltd.	Purity Hard Coal Willow Creek
1599	Burn-Brite Coal Co. Ltd.	Burn-Brite Coal Drumheller
1655	J. Wakaruk & Partners	Cozy Coal Newcastle
1660	John S. Hackler	Ball Coal Wayne
1666	Allan Livingstone	Livingstone Coal Nacmine
1668	Victor Leonhardt	Lion Coal Drumheller
1669	Joy Coal Mining Co. Ltd.	Joy Coal Cambria
1680	John Gallagher	Blackball Coal Rosedale
Edmonton Area:		
91	Ottewell Coal Co. Ltd.	Clover Gem Coal Clover Bar
99	Great West Coal Co. Ltd.	Black Diamond Coal Clover Bar
129	Sundance Mines Ltd.	Suncole Cardiff
428	Banner Coals Ltd.	Penn Coal Carbondale
1034	Dolinski, Yanew & Maik	Black Point Coal Edmonton
1098	Long Coal Co. Ltd.	Hardite Coal Namao
1123	J. A. MacKinnon	Devon Coal Edmonton
1266	Edmonton Collieries Ltd.	New Black Gem Coal Namao
1316	Samis Collieries Ltd.	Samis Coal Namao
1357	Red Hot Coal Co. Ltd.	Red Hot Coal Edmonton
1366	Beverly Coal Ltd.	Beverly Coal Beverly
1393	Ottewell Coal Co. Ltd.	Marvel Coal Clover Bar
1419	Pine Creek Collieries Ltd.	Pine Creek Coal Edmonton
1463	Riverdale Coal Co. Ltd.	Dependable Coal Edmonton
1496	G. S. Gwilliam & Samis	Black Beauty Coal Namao
1560	K. Nimko	White Mud Creek Coal Edmonton
1582	Egg Lake Coal Co. Ltd.	Egg Lake Coal Morinville
1626	J. B. Starky Co. Ltd.	Star-Key Coal St. Albert
1627	Dickinson & Knight	Carbondale Coal Carbondale
1628	Blue Point Coal Mine	Blue Point Coal Edmonton
1632	C. F. MacLachlan	Beaver Hills Coal Edmonton
1635	Morinville Collieries	Spitfire Coal Cardiff
1636	J. B. St. Martin	Legal Coal Legal
1641	A. Horkulak	Rabbit Hill Coal Edmonton
1646	J. G. Mucha	Bright Service Coal Edmonton
1658	Opalinski & Klapstein	Ellerslie Coal Ellerslie
1684	J. G. Mucha	Bright Service Coal Edmonton
Gleichen Area:		
72a	The Blackfoot Indians	Gleichen Gleichen
1265	Hans Castella & Sons	Standard Coal Standard
1431	J. Guiney	Consumer's Coal Rosebud
1521	Wm. McMillan	Supreme of the Valley Coal Rosebud

Mine No.	Name of Operator	Registered Trade Name and Address	
Halcourt Area:			
651	Baldwin Collieries Ltd.	Globe Coal	Grande Prairie
1588	Cage Brothers	Hillside Coal	Halcourt
1633	William Fraser	Fraser Coal	Halcourt
1647	R. O. Johnston & Sons	Big Mountain Creek Coal	Grande Prairie
1651	C. D. Grubb	Aspen Dale Coal	Hualien
Highwood Area:			
1625	Alberta Hard Coals Ltd.	Canthracite Coal	Turner Valley
1638	Sheep River Coal Co.	Sheep River Coal	Turner Valley
Lethbridge Area:			
56	A. Razzolini	The Baker Coal	Magrath
738	J. A. S. Wukusich	Santa-Maria Coal	Lethbridge
1086	S. Kocsis & Varga	Steve's Mine	Lethbridge
1095	Chester Mine	Royal Coal	Lethbridge
1263	Lethbridge Collieries Ltd.	Cadillac Coal	Shaughnessy
1464	Lethbridge Collieries Ltd.	Galt Coal	Lethbridge
1581	J. J. Hamilton Coal Co.	Federal Coal	Lethbridge
1602	Vulcan Mining & Construc. Co. Ltd.	Vulcan Coal	Vulcan
1685	L. C. McClain & Le Ray Meldrum	M. & M. Coal	Magrath
Milk River Area:			
1301	Thomas Taylor	New Benwell Coal	Lucky Strike
1380	Lucky Strike Coal Co.	Kippenkoal	Masinasin
Morley Area:			
1619	B. Ainsley & Sons	Fire Cloud Coal	Morley
Mountain Park Area:			
282	Mountain Park Coals Ltd.	Mountain Park Coal	Mountain Park
693	Cadomin Coal Co., Ltd.	Cadomin Coal	Cadomin
693	Cadomin Coal Co., Ltd.	Rucky Mountain Splint Coal	Cadomin
905	Luscar Coals Ltd.	Luscar Coal	Luscar
1392	Gregg River Collieries, Ltd.	Gregg River Coal	Gregg River
1631.	Arctic Coals Ltd.	Hot-Blast Coal	Cadomin
Nordegg Area:			
256	Brazeau Collieries Ltd.	Brazeau Bituminous Steam	Nordegg
Pakowki Area:			
1318	W. Raeder	Elkwater Coal	Elkwater
Pekisko Area:			
1516	G. C. Davies	O.V. Coal	Priddis
Pembina Area:			
419	Alberta Coal Co. Ltd.	Victory Coal	Wabamun
1409	Gainford Collieries Ltd.	Gain-Heat Coal	Gainford
1495	Pembina Collieries Ltd.	Pembina Peerless Coal	Entwistle
1592	Swanson Collieries Ltd.	Pembina Royal Coal	Gainford
1596	Wm. Robinson	Robinson's Coal	Entwistle
1630	Lake Isle Mine	Lake Isle Coal	Gainford
1644	Strawberry Creek Coal Co. Ltd.	Strawberry Creek Coal	Warburg
1645	Lothian Collieries Ltd.	Blue Flame Coal	Wabamun
1652	N. Fry & T. Larson	Cora Coal	Seba Beach
1657	J. Lidgett & L. Opheim	O. & L. Coal	Entwistle
1670	S. Pinter & Sons	Pinter Coal	Warburg
1683	Donvie Collieries Ltd.	Sunburst Coal	Gainford
1687	James Sturms	Island View Coal	Genesee
Pincher Area:			
1440	Letcher Coal Co.	Letcher Coal	Lundbreck
Prairie Creek Area:			
1653	C. M. Woodley	Red Glow Coal	Hinton
Redcliff Area:			
772	Naco Coal Company	Ajax Coal	Medicine Hat
Rochester Area:			
1686	Marwood S. Alexander	Baptiste Coal	Edmonton
Saunders Area:			
388	Bighorn & Saunders Creek Colls.	Bighorn & Saunders Creek	Saunders
852	Alexo Coal Co. Ltd.	Alexo Coal	Alexo
852	Alexo Coal Co. Ltd.	Acorn Saunders Coal	Alexo
Sheerness Area:			
443	Chinook Coal Co. Ltd.	Sheerness Chinook Coal	Sheerness
486	Litke Brothers	Superior Coal	Hanna
1314	John Gaetz	Gowan Coulee Coal	Hanna
1398	T. G. Ironside & A. Glover	Ironside Coal	Scapa
1401	Fred Pahl	Eureka Coal	Hanna
1432	Sheerness Coal Co. Ltd.	Sheebo Coal	Sheerness
1553	J. Masciangelo and Partners	Blossom Mine Coal	Delia
1597	Crystal Mine	Crystal Coal	Hanna

THE MINES BRANCH

Mine No.	Name of Operator	Registered Trade Name and Address
Slave Area: ...		
1682	Rybert Pearson	Noralta Coal Canyon Creek
Taber Area:		
672	J. Annon & Popel	Leland Coal Winnifred
838	D. McCracken & Goring	Sunny South Coal Alderson
1334	Continental Coal Corp. Ltd.	Alburna Coal Grassy Lake
1536	Oliver Coal Mine	Oliver Senior Coal Taber
1604	Southern Alberta Coal Co. Ltd.	Southalta Coal Taber
1609	Southalta Coal Co. Ltd.	Southalta Coal Taber
Tofield Area:		
251	Emil Skarin	North Star Coal Dodds
252	Tofield Coal Co. Ltd.	Headlight Coal Tofield
1107	Black Nugget Coal Co. Ltd.	Hi-Lo Coal Ryley
1206	Ryley Coal Co. Ltd.	Ryley Coal Ryley
1624	C. Binder	Ryalta Coal Ryley
Westlock Area:		
1517	Thorhild Coal Co.	Dandy Coal Thorhild
1523	Picardville Coal Co.	Picardville Coal Picardville
1562	Tomlinson & Kaszuba	The North Point Coal Thorhild
Wetaskiwin Area:		
1534	Peter Gill	Canyon Creek Coal Thorsby
Whitecourt Area:		
1569	A. Watson	Blue Ridge Coal Blue Ridge
1681	Edward Hughes	Athabasca River Hard Coal Mayerthorpe
No Area:		
	Pinto Creek Coal Co. Ltd.	Pinto Creek Coal Wembley

PARTICULARS OF OPERATING MINES IN THE VARIOUS AREAS

ARDLEY AREA

R. R. Straub—Mine No. 255

Mine Office: Alix, Alberta.
 Foreman: R. R. Straub.
 Mine Surveyor: David Jones.
 Thickness of Seam: 5 feet.
 Coal Mining Lease: C.P.R.
 Truck Mine.
 Form of Opening: Strip mine.
 Location of Mine: S.W. $\frac{1}{4}$ of L.S. 5, Sec. 17, Tp. 38, Rge. 23, West 4th Mer.
 Registered Trade Name: Conger Coal

J. W. Sissons—Mine No. 809

Mine Office: Alix, Alberta.
 Mine Surveyor: Robert Hamilton.
 Foreman: Clive Sissons.
 Thickness of Seam: 5 feet.
 Thickness of Cover: Approx. 45 feet.
 Coal Mining Lease Number: C.P.R. 475 and 584.
 Truck mine.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 3, 4, 5, 6, 15 and 16, Sec. 33, Tp. 38, Rge. 23, W. 4th Mer.
 Registered Trade Name: Pearl of Furnace Coal.

Karl Schnepf—Mine No. 969

Mine Office: Delburne, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: Karl Schnepf.
 Thickness of Seam: $3\frac{1}{2}$ ft.
 Thickness of Cover: 30 ft. to 80 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 5 ft. by 6 ft. Depth of Slope: 80 feet.
 Location of Mine: L.S. 14, Sec. 10, Tp. 38, Rge. 22, West 4th Mer.
 Coal Mining Lease Number: C.P.R. 585.
 Truck mine.
 Registered Trade Name: Great Bend Coal.

A. Johnson—Mine No. 1018

Mine Office: Ardley, Alberta.
 Mine Surveyor: David Jones.
 Foreman: A. Johnson.
 Thickness of Seam: $5\frac{1}{2}$ feet.
 Thickness of Cover: 30 to 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location: L.S. 3, Sec. 17, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 274.
 Truck mine.
 Registered Trade Name: Dixie Coal.

Carl Kurp—Mine No. 1135

Mine Office: Delburne, Alberta.
 Mine Surveyor: David Jones.
 Overman: Carl Kurp.
 Thickness of Seam: 5 ft. 5 in.
 Thickness of Cover: 153 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Entry. Size of Entry: 6 ft. by 8 ft.
 Location of Mine: L.S. 4 and 5, Sec. 7, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 11.
 Truck mine.
 Registered Trade Name: Kurp's Coal.

Chas. M. Russell—Mine No. 1488

Mine Office: Alix, Alberta.
 Mine Surveyor: David Jones.
 Foreman: C. M. Russell.
 Thickness of Seam: 5 ft. 6 in.
 Thickness of Cover: 60 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: E. $\frac{1}{2}$ of L.S. 3 and 4, Sec. 29, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: S.L. 512.
 Truck and C.N.R. mine.
 Registered Trade Name: Eclipse Coal.

Kehl & McGladrie—Mine No. 1586

Mine Office: Nevis, Alberta.
 Mine Surveyor: David Jones.
 Overman: Robert McGladrie.
 Thickness of Seam: 4 ft. 6 in.
 Thickness of Cover: 75 feet.
 Form of Opening: Slope and Shaft. Size of Shaft: 5 ft. by 5 ft. Depth of Shaft: 30 ft. Size of Slope: 6 ft. by 6 ft. Depth of Slope: 135 ft.
 Location of Mine: L.S. 4 and 5, Sec. 35, Tp. 37, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 582.
 C.N.R. and Truck mine.
 Registered Trade Name: Valley Coal.

S. S. Munro & Son—Mine No. 1605

Mine Office: Ardley, Alberta.
 Mine Surveyor: David Jones.
 Foreman: S. S. Munro.
 Thickness of Seam: 4 ft. 2 in.
 Thickness of Cover: 27 in.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip pit.
 Location of Mine: L.S. 12, Sec. 35, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 634.
 Truck mine.
 Registered Trade Name: Shurheat Coal.

William Barrell & A. Auvigne—Mine No. 1613

Mine Office: Ardley, Alberta.
 Mine Surveyor: David Jones.
 Foreman: W. Barrell.
 Thickness of Seam: 6 feet.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 10, Sec. 20, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5484.
 Truck mine.
 Registered Trade Name: B & A Coal.

Wm. G. Martin—Mine No. 1663

Mine Office: Delburne, Alberta.
 Mine Surveyor: David Jones.
 Foreman: Wm. G. Martin.
 Thickness of Seam: 6 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: E. & W. $\frac{1}{2}$ of L.S. 15 and 16, Sec. 22, Tp. 37, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5634.
 Truck mine.
 Registered Trade Name: Martin Coal.

D. L. Gordon—Mine No. 1673

Mine Office: Warden, Alberta.
 Mine Surveyor: David Jones.
 Foreman: D. L. Gordon.
 Thickness of Seam: $3\frac{1}{2}$ ft.
 Thickness of Cover: 20 to 30 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: W. and E. $\frac{1}{2}$ of L.S. 1 and 2, Sec. 15, Tp. 38, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 658.
 Truck mine.
 Registered Trade Name: Gordon Coal.

John Lynass—Mine No. 1675

Mine Office: Delburne, Alberta.
 Mine Surveyor: David Jones.
 Foreman: John Lynass.
 Thickness of Seam: $5\frac{1}{2}$ ft.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 13, Sec. 8, Tp. 38, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: H.B.C. 127.
 Truck mine.
 Registered Trade Name: Glennifer Coal.

BIG VALLEY AREA**Big Valley Coal Co.—Mine No. 864**

Name of President: John McAlister.
 Name of Director: B. McAlister.
 Mine Office: Big Valley, Alberta.
 General Manager: J. McAlister.
 Mine Manager: John Schymizek.
 Mine Surveyor: David Jones.
 Thickness of Seam: 9 feet.
 Thickness of Cover: 10ft. to 150ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 18ft. Depth of Slope: 20ft.
 Location of Mine: L.S. 16, Sec. 26, Tp. 35, Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: H.B.C. Truck and C.N.R. Mine.
 Registered Trade Name: Quality Coal.

Robert Campkin—Mine No. 1254

Mine Office: Lousana, Alberta.
 Mine Surveyor: David Jones.
 Overman: B. Campkin.
 Form of Opening: Adit. 6ft. by 5ft.
 Location of Mine: S.W. $\frac{1}{4}$ L.S. 16, Sec. 12, Tp. 36, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5605.
 Truck mine.
 Registered Trade Name: Thompson Coal.

Robert Campkin & Sons—Mine No. 1661

Mine Office: Lousana.
 Location of Mine: L.S. 1, Sec. 23, Tp. 36, Rge. 22, West 4th Mer.
 Coal Mining Lease Number: 5605.
 Registered Trade Name: The Campkin Mine.

BROOKS AREA**Birnwel Coal Ltd.—Mine No. 1404**

Authorized Capital: \$250,000.00.
 Name of President: J. G. Westgate.
 Name of Director: R. M. Balfour.
 Name of Secretary: O. B. Whitman.
 Mine Office: Eyremore.
 Mine Manager: Geo. A. Wiggan.
 Mine Surveyor: J. F. Hamilton.
 Foreman: William M. Cragg.
 Blasters: Wallace E. Herrick and Edgar Nelson.
 Thickness of Seam: 43 $\frac{1}{2}$ ft.
 Thickness of Cover: 30ft. to 55ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: Pt. of Sec. 27, Secs. 34 and 35, Tp. 17, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 593.
 C.P.R. and Truck mine.
 Registered Trade Name: Birnwel Coal

J. D. Vogel—Mine No. 1672

Mine Office: Midlandvale, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Foreman: J. D. Vogel.
 Thickness of Seam: 1ft.
 Thickness of Cover: 18ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 7, Sec. 2, Tp. 14, Rge. 13, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 641.

CAMROSE AREA**Joe Proskow—Mine No. 241**

Mine Office: Dinant, Alberta.
 Mine Surveyor: David Jones.
 Foreman: J. Proskow.
 Thickness of Seam: 6ft. 6in.
 Thickness of Cover: 18 to 20 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 4, Sec. 18, Tp. 48, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: M.S. 995.
 Truck mine.
 Registered Trade Name: Proskow Coal.

S. H. Burnstad—Mine No. 724

Mine Office: Ohaton, Alberta.
 Mine Surveyor: D. Jones.
 Foreman: S. H. Burnstad.
 Thickness of Seam: 5ft. 9in.
 Thickness of Cover: 21ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: N. & S. $\frac{1}{2}$ of L.S. 3 and 6, Sec. 14, Tp. 48, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5525.
 Registered Trade Name: Burnstad's Coal.

Red Flame Coal Co., Ltd.—Mine No. 1420

Authorized Capital: \$20,000.
 Name of President: Alexander Russell.
 Name of Directors: Alex. Russell and Robert Shortreed.
 Name of Secretary: Robert Shortreed.
 Mine Office: Round Hill, Alberta.
 Mine Manager: James M. Clyne.
 Mine Surveyor: David Jones.
 Overman: W. V. Gotheridge.
 Fireboss: C. F. Gotheridge.
 Thickness of Seam: 6 feet.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 150ft.
 Location of Mine: N.W. $\frac{1}{4}$ of Sec. 19, Tp. 48, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 467A.
 C.N.R. and Truck mine.
 Registered Trade Name: Red Flame Coal.

Geo. Shute & Partners—Mine No. 1524

Authorized Capital: \$9,800.
 Mine Office: Dinant, Alberta.
 Mine Surveyor: David Jones.
 Foreman: G. Shute.
 Thickness of Seam: 5ft. to 6ft.
 Thickness of Cover: 14ft. to 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 8 and 9, Sec. 7, Tp. 48, Rge. 19, West 4th Mer.
 Coal Mining Lease Number: C.P.R. 546.
 Truck mine.
 Registered Trade Name: Demay Coal.

Alberta Coal Co. Ltd.—Mine No. 1603

Authorized Capital: \$200,000.
 Name of President: D. Twomey.
 Name of Director: D. Twomey.
 Name of Secretary: A. E. Burgess.
 Head Office: 332 7th Ave. West, Calgary, Alberta.
 Mine Office: Camrose, Alberta.
 General Manager: D. Twomey.
 Mine Manager: R. B. Munn.
 Mine Surveyor: A. E. Williams.
 Thickness of Seam: 4ft. to 5ft.
 Thickness of Cover: 20ft. to 25ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 2, 6, 7, 10, 11 & 15, Sec. 29, Tp. 46, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: S.L. 529.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Camrose Coal.

CARBON AREA**A. Fox—Mine No. 53**

Authorized Capital: \$12,000.
 Mine Office: Carbon, Alberta.
 Mine Surveyor: David Jones.
 Overman: A. Fox.
 Thickness of Seam: 3 $\frac{1}{2}$ ft.
 Thickness of Cover: 185ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: S.W. $\frac{1}{4}$ of L.S. 3, Sec. 14, Tp. 29, Rge. 23, W. 4th Mer.
 Truck mine.
 Registered Trade Name: Carbon Sunrise Coal.

Kneehill Coal Co.—Mine No. 194

Authorized Capital: \$500,000.00.
 Name of President: P. D. McArthur.
 Names of Directors: N. J. Christie, Mrs. Chas. Stewart, Frank Tempest, R. Stewart.
 Name of Secretary: F. Tempest.
 Head Office: 22 Travellers' Building, Calgary.
 Mine Office: Carbon, Alberta.
 Mine Surveyor: A. Macaulay.
 Foreman: A. A. McArthur.
 Thickness of Seam: 4½ ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip Mine.
 Location of Mine: N. E. ¼ of Sec. 4, Tp. 31, Rge. 22, W. of 4th Mer.
 Coal Mining Lease Number: S.L. 224.
 C.P.R. and Truck mine.
 Registered Trade Name: Knee Hill Coal.

Inland Coal Co., Ltd.—Mine No. 384

Authorized Capital: \$20,000.
 Name of President: W. J. Nesbitt.
 Name of Directors: W. J. Nesbitt, R. B. Watson.
 Name of Sec.-Treas.: R. B. Watson.
 Head Office: 804 McLeod Bldg., Edmonton, Alberta.
 Mine Office: Three Hills, Alberta.
 General Manager: W. J. Nesbitt.
 Mine Manager: B. Nugent.
 Mine Surveyor: R. T. Stewart.
 Fireboss: Pete Gorge.
 Thickness of Seam: 5 ft.
 Thickness of Cover: 160 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 11 ft. by 8 ft. Depth of Shaft: 168 ft.
 Location of Mine: L.S. 16, Sec. 26, Tp. 31, Rge. 24, W. 4th Mer.
 Coal Mining Lease Number: M.S. 635.
 C.N.R. and Truck mine.
 Registered Trade Name: Kneehill Valley Coal.

J. W. Ryning—Mine No. 690

Mine Office: Rowley, Alberta.
 Mine Surveyor: David Jones.
 Overman: Jas. W. Ryning.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 10 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 6 ft. by 8 ft. Depth of Shaft: 108 ft.
 Location of Mine: L.S. 4, Sec. 13, Tp. 32, Rge. 21, W. 4th Mer.
 Coal Mining Lease Number: 5302.
 Truck mine.
 Registered Trade Name: Ant Hill Coal.

East Trochu Coal Co.—Mine No. 710

Mine Office: Trochu, Alberta.
 Mine Surveyor: David Jones.
 Overman: Lloyd Geo. Yard.
 Thickness of Seam: 4½ ft.
 Thickness of Cover: 85 ft. to 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 9, 10, 15 and 16, Sec. 14, Tp. 33, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5320.
 C.N.R. and Truck mine.
 Registered Trade Name: Troalta Coal.

Ben Pickering—Mine No. 817

Mine Office: Ghost Pine Creek, Alberta.
 Mine Surveyor: David Jones.
 Overman: Ben Pickering.
 Thickness of Seam: 5 ft. to 6 ft.
 Thickness of Cover: 100 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 5 ft. by 6 ft. Depth of Slope: 100 ft.
 Location of Mine: S. ½ of L.S. 1 and 2, Sec. 6, Tp. 31, Rge. 21, W. 4th Mer.
 Coal Mining Lease Number: 5510.
 Truck mine.
 Registered Trade Name: Orkney Coal.

E. Reissig—Mine No. 921

Mine Office: Trochu, Alberta.
 Mine Surveyor: David Jones.
 Overman: E. Reissig.
 Thickness of Seam: 5½ ft.
 Thickness of Cover: 85 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 5 ft. by 7 ft.
 Location of Mine: L.S. 15 and 16, Sec. 14, Tp. 33, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5464.
 Truck mine.
 Registered Trade Name: Meadow Bank Coal.

East Carbon Coal Co. Ltd.—Mine No. 1060

Mine Office: Carbon, Alberta.
 Mine Surveyor: David Jones.
 Overman: Ben Fox.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 200 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 6 ft. by 7 ft. Depth of Shaft: 100 ft.
 Location of Mine: L.S. 12 and 13, Sec. 7, Tp. 29, Rge. 22, West of 4th Mer.
 Coal Mining Lease Number: C.L.S. 255.
 C.P.R. and Truck mine.
 Registered Trade Name: Reliable Coal.

J. A. Ginter & Sons—Mine No. 1226

Mine Office: Trochu, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: Pat Ginter.
 Thickness of Seam: 5 ft. 4 in.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6 ft. by 7 ft. Depth of Slope: 600 ft.
 Location of Mine: W. ½ of L.S. 9, Sec. 29, Tp. 33, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: S.L. 278.
 Truck mine.
 Registered Trade Name: Campbell Coal.

A. E. Staite—Mine No. 1283

Mine Office: Trochu, Alberta.
 Mine Surveyor: David Jones.
 Overman: A. E. Staite.
 Thickness of Seam: 5½ ft.
 Thickness of Cover: 90 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Level Entry.
 Location of Mine: S.E. ¼ of L.S. 9, Sec. 14, Tp. 33, Rge. 23, W. of 4th Mer.
 Coal Mining Lease Number: 5173.
 Truck mine.
 Registered Trade Name: Antler Coal.

Balogh Brothers—Mine No. 1359

Authorized Capital: \$10,000.00.
 Mine Office: Carbon, Alberta.
 Mine Surveyor: David Jones.
 Overman: Aron Balogh.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 160 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7 ft. by 6 ft. Depth of Slope: 1½ ft.
 Location of Mine: L.S. 16, Sec. 12, Tp. 29, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: M.S. 234.
 C.P.R. and Truck mine.
 Registered Trade Name: Arctic Coal.

Nuttall & Davidson—Mine No. 1499

Mine Office: Three Hills, Alberta.
 Mine Surveyor: David Jones.
 Foreman: F. Nuttall.
 Thickness of Seam: 4 ft.
 Thickness of Cover: 25 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 1 and 2, Sec. 9, Tp. 31, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5257.
 Truck mine.
 Registered Trade Name: Fire King Coal.

Peerless Coal Co. Ltd.—Mine No. 1600

Mine Office: Carbon, Alberta.
 Mine Surveyor: H. R. Brown.
 Overman: H. R. Brown.
 Thickness of Seam: 4ft.
 Thickness of Cover: 45 to 225 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6ft. by 5ft. Depth of Slope: 214 ft.
 Location of Mine: L.S. 2, Sec. 15, Tp. 29, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: S.L. 259.
 Truck mine.
 Registered Trade Name: Peerless Carbon Coal.

M. E. Morel—Mine No. 1621

Mine Office: Ghost Pine Creek, Alberta.
 Mine Surveyor: David Jones.
 Overman: M. E. Morel.
 Thickness of Seam: 5½ feet.
 Thickness of Cover: 50 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 8, Sec. 10, Tp. 31, Rge. 22, W. 4th Mer.
 Coal Mining Lease Number: 5500.
 Registered Trade Name: Black Jewel Coal.

D. W. Davidson—Mine No. 1676

Mine Office: Three Hills, Alberta.
 Mine Surveyor: D. Jones.
 Foreman: D. W. Davidson.
 Thickness of Seam: 3ft.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: Pts. of L.S. 11 and 14, Sec. 22, Tp. 31, Rge. 24, W. 4th Mer.
 Coal Mining Lease Number: 5635.
 Registered Trade Name: Black Star Coal.

CASCADE AREA**The Canmore Mines Ltd.—Mine No. 2**

Authorized Capital: \$1,000,000.
 Name of President: Edmund Hayes.
 Names of Directors: Edmund Hayes, B. F. Crane, W. R. Stewart, R. M. Young, A. J. Macmillan, Geo. F. Jewett, and L. S. Headley.
 Name of Secretary: J. E. A. McLeod.
 Name of Treasurer: L. S. Headley.
 Mine Office: Canmore, Alberta.
 General Manager: R. M. Young.
 Mine Manager: V. Mrokwa.
 Mine Surveyor: C. S. Dewis.
 Overmen: J. Brown and A. A. Fox.
 Firebosses: W. Bell, A. Baroni, M. Carmichael, A. Crawford, C. Foster, J. C. James, A. Knudson, A. Kowal, S. Lauhela, J. Miskow, H. Musgrove, H. Niskanen, H. Paavola, Jos. Riva, B. Rogers, A. Shellian.
 Inclination of Seam: 10 to 35 degrees.
 Form of Opening: Slope. Size of Slope: 16ft. by 8ft. Depth of Slope No. 4 Seam, 2,400 ft.; No. 5 Seam, 1,100 ft.
 Location of Mine: N.E. Pt. of L.S. 1, Sec. 29, Tp. 24, Rge. 10, W. 5th Mer.
 Coal Mining Lease Number: S.L. 130, 131.
 C.P.R. and Truck mine.
 Registered Trade Name: Canmore Coal.

Frank Wheatley & Sons—Mine No. 1244

Authorized Capital: \$35,000.
 Mine Office: Banff, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: F. M. Wheatley.
 Fireboss: J. W. Wheatley.
 Thickness of Seam: 8 feet.
 Thickness of Cover: 350ft.
 Inclination of Seam: 40 degrees.
 Form of Opening: Slope. Size of Slope: 7ft. by 10ft. Depth of Slope: 310ft.
 Location of Mine: L.S. 12, Sec. 4, Tp. 26, Rge. 11, W. 5th Mer.

Coal Mining Lease Number: C.L.S. 9.
 Truck mine.
 Registered Trade Name: Wheatley Bros. Coal.

Kananaskis Exploration & Development Co. Ltd.—Mine No. 1667

Head Office: 227A 7th Ave. W., Calgary, Alberta.
 Mine Office: Seebe, Alberta.
 Mine Surveyor: T. H. Hodson.
 Foreman: Elias Jones.
 Thickness of Seam: 18ft.
 Form of Opening: Strip Mine.
 Location of Mine: Sec. 3, Tp. 32, Rge. 9, W. 5th Mer.
 Coal Mining Lease Number: 5652.
 C.P.R. and Truck mine.
 Registered Trade Name: Cascade Coal.

CASTOR AREA**John Tyrlik—Mine No. 251**

Mine Office: Heisler, Alberta.
 Mine Surveyor: David Jones.
 Overman: Joe Tyrlik.
 Thickness of Seam: 4ft. 10in.
 Thickness of Cover: 80ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 40 ft.
 Location of Mine: L.S. 9, Sec. 28, Tp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5530.
 Truck mine.
 Registered Trade Name: Diamond G. Coal.

James Chiswick—Mine No. 291

Mine Office: Gadsby, Alberta.
 Mine Surveyor: David Jones.
 Foreman: James Chiswick.
 Thickness of Seam: 4ft. 6in.
 Thickness of Cover: 25ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: N. and S. ½ of L.S. 11 and 6, Sec. 28, Tp. 39, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 5093.
 Truck mine.
 Registered Trade Name: Sunset Coal.

A. J. James and E. J. Boyce—Mine No. 447

Mine Office: Forestburg, Alberta.
 Mine Surveyor: David Jones.
 Overman: John R. James.
 Thickness of Seam: 6½ft.
 Thickness of Cover: 18ft. to 22ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 5ft. by 6ft. Depth of Shaft: 28ft.
 Location of Mine: L.S. 13, Sec. 28, Tp. 40, Rge. 15, West of 4th Mer.
 Coal Mining Lease Number: 5416.
 C.P.R. and Truck mine.
 Registered Trade Name: Ever Ready Coal.

Komperdo & Partners—Mine No. 615

Mine Office: Heisler, Alberta.
 General Manager: John Komperdo.
 Mine Surveyor: David Jones.
 Overman: James Bowie.
 Thickness of Seam: 5ft. 7in.
 Thickness of Cover: 95ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7ft. by 7ft. Depth of Slope: 70ft.
 Location of Mine: L.S. 13, Sec. 22, Tp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5429.
 C.N.R. mine.
 Registered Trade Name: Riverside Coal.

Howlett & Osmack—Mine No. 666

Mine Office: Forestburg, Alberta.
 Mine Surveyor: David Jones.
 Foreman: Geo. Klashinsky.

Thickness of Seam: 6 feet.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 16, Sec. 2, Tp. 41,
 Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 5448.
 C.N.R. and Truck mine.
 Registered Trade Name: K.M. Coal.

O. V. Remillard—Mine No. 902

Mine Office: Castor, Alberta.
 Mine Surveyor: David Jones.
 Overman: O. V. Remillard.
 Thickness of Seam: 5ft.
 Thickness of Cover: 46ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope: Size of Slope:
 5ft. by 6ft. Depth of Slope: 127ft.
 Location of Mine: L.S. 15 and 16, Sec. 33,
 Tp. 37, Rge. 14, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 186.
 Truck mine.
 Registered Trade Name: Remillard Coal.

Wm. Strickland—Mine No. 911

Mine Office: Heisler, Alberta.
 Mine Surveyor: David Jones.
 Overman: Wm. Strickland.
 Thickness of Seam: 4½ feet.
 Thickness of Cover: 55 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6ft. by 7ft. Depth of Slope: 175ft.
 Location of Mine: L.S. 1, Sec. 33, Tp. 42,
 Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 120.
 Truck mine.
 Registered Trade Name: Palace Coal.

D. H. Wiltse & Krammer—Mine No. 953

Mine Office: Forestburg, Alberta.
 Mine Surveyor: D. Jones.
 Foreman: Don Wiltse.
 Thickness of Seam: 6ft.
 Thickness of Cover: 20 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: S.E. ¼ of L.S. 1, Sec.
 32, Tp. 40, Rge. 15, W. 4th Mer.
 Coal Mining Lease Number: 5479.
 Truck Mine.
 Registered Trade Name: Battle River
 Coal.

Filipenko Brothers—Mine No. 1046

Mine Office: Halkirk, Alberta.
 Mine Surveyor: David Jones.
 Foreman: W. M. Jamieson.
 Thickness of Seam: 9ft.
 Thickness of Cover: 35ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L. S. 6, 7 and 8, Sec.
 20, Tp. 40, Rge. 15, W. 4th Mer.
 Coal Mining Lease Number: 5433.
 Truck mine.
 Registered Trade Name: Cordel Coal.

Chas. Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
 Mine Surveyor: David Jones.
 Overman: James Strader.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 90 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 4, Sec. 17, Tp. 39,
 Rge. 15, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 41.
 Truck mine.
 Registered Trade Name: Esperanze Coal.

J. H. Ainsworth—Mine No. 1232

Mine Office: Halkirk, Alberta.
 Mine Surveyor: David Jones.
 Overman: J. H. Ainsworth.
 Thickness of Seam: 6 feet.
 Thickness of Cover: 40 feet.
 Inclination of Seam: Horizontal.

Form of Opening: Drift.
 Location of Mine: L.S. 13, Sec. 25, Tp.
 40 Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 478.
 Truck mine.
 Registered Trade Name: Ainsworth Coal.

Davis & Doan—Mine No. 1237

Mine Office: Halkirk, Alberta.
 Mine Surveyor: David Jones.
 Overman: Roland Davis.
 Thickness of Seam: 6ft.
 Thickness of Cover: 83 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 11, Sec. 8, Tp. 39,
 Rge. 15, West of 4th Mer.
 Coal Mining Lease: H.B.C.
 Truck mine.
 Registered Trade Name: Ruby Glow
 Coal.

Thomas Mitchinson—Mine No. 1248

Mine Office: Donalda, Alberta.
 Mine Surveyor: David Jones.
 Overman: Thomas Mitchinson.
 Thickness of Seam: 4ft. 6in.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6ft. by 5ft. Depth of Slope: 30ft.
 Location of Mine: L.S. 5, Sec. 29, Tp. 41,
 Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: S.L. 517.
 Truck mine.
 Registered Trade Name: Mitchinson Coal.

James Easton—Mine No. 1417

Mine Office: Castor, Alberta.
 Mine Surveyor: David Jones.
 Foreman: James Easton.
 Thickness of Seam: 5ft.
 Thickness of Cover: 40 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: S.W. ¼ of L.S. 14, Sec.
 34, Tp. 37, Rge. 14, W. 4th Mer.
 Coal Mining Lease Number: 5013.
 Truck mine.
 Registered Trade Name: Burn-Rite Coal.

G. O. Otteson & Tucker—Mine No. 1435

Mine Office: Edberg, Alberta.
 Mine Surveyor: David Jones.
 Overman: A. Wilkinson.
 Thickness of Seam: 4ft.
 Thickness of Cover: 75 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: N. and S. ½ of L.S. 6
 and 11, Sec. 2, Tp. 44, Rge. 19, W. 4th
 Mer.
 Coal Mining Lease Number: 5122.
 Truck mine.
 Registered Trade Name: Rosebush Coal.

Leonard Buckle—Mine No. 1441

Mine Office: Donalda, Alberta.
 Mine Surveyor: J. Marshall.
 Overman: L. Buckle.
 Thickness of Seam: 10ft. 10in.
 Thickness of Cover: 128 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 5, 12 and 13, Sec.
 16, Tp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5132.
 C.N.R. and Truck mine.
 Registered Trade Name: Black Emerald
 Coal.

**Alvin Annonson & J. Radford—
 Mine No. 1572**

Authorized Capital: \$3,000.
 Name of President: Alvin E. Annonson.
 Name of Director: H. O. Anonson.
 Name of Secretary: John H. Radford.
 Name of Treasurer: Alvin E. Anonson.
 Mine Office: Donalda, Alberta.
 Mine Surveyor: David Jones.

Overman: John H. Radford.
 Thickness of Seam: 4ft. 6in.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift. Size of Drift: 6ft. by 7ft.
 Location of Mine: N. and S. $\frac{1}{2}$ L.S. 4 and 5, Sec. 28, Tp. 41, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5325.
 C.N.R. and Truck mine.
 Registered Trade Name: Black Eagle Coal.

Bish Bros.—Mine No. 1578

Mine Office: Forestburg, Alberta.
 Mine Surveyor: David Jones.
 Overman: James Carson.
 Thickness of Seam: 6ft.
 Thickness of Cover: 40ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 5ft. by 8ft. Depth of Shaft: 50 feet.
 Location of Mine: L.S. 15 and 16, Sec. 36, Tp. 40, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 5365, 5674.
 C.N.R. mine.
 Registered Trade Name: Bish Coal.

J. J. Mills & Sons—Mine No. 1587

Mine Office: Heisler, Alberta.
 Mine Surveyor: David Jones.
 Overman: J. J. Mills.
 Thickness of Seam: 7ft.
 Thickness of Cover: 109ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7ft. by 8ft. Depth of Slope: 130ft.
 Location of Mine: S.W. and S.E. $\frac{1}{4}$ L.S. 11 and 12, Sec. 22, Tp. 42, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5425.
 C.N.R. and Truck mine.
 Registered Trade Name: Eagle Coal.

**Castor Coal & Construction Co.—
 Mine No. 1608**

Mine Office: Castor, Alberta.
 Mine Manager: D. C. Henderson.
 Mine Surveyor: David Jones.
 Foreman: E. Fletcher.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: S. and N. $\frac{1}{2}$ of L.S. 6 and 3, Sec. 3, Tp. 38, Rge. 14, West of 4th Mer.
 Coal Mining Lease Number: C.P.R. 604.
 C.P.R. and Truck mine.
 Registered Trade Name: Tower Coal.

Alfred Sorken—Mine No. 1614

Mine Office: Killam, Alberta.
 Mine Surveyor: David Jones.
 Foreman: A. Sorken.
 Thickness of Seam: 6ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 16, Sec. 26, Tp. 40, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 2900.
 Truck mine.
 Registered Trade Name: Radar Coal.

F. N. Wiltse—Mine No. 1634

Mine Office: Halkirk, Alberta.
 Mine Surveyor: David Jones.
 Foreman: F. N. Wiltse.
 Thickness of Seam: 5ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: W. $\frac{1}{2}$ L.S. 11, Sec. 32, Tp. 39, Rge. 15, W. 4th Mer.
 Coal Mining Lease Number: 5564.
 Truck mine.
 Registered Trade Name: Canyon Mine Coal.

J. Bradley & O'Brien—Mine No. 1642

Mine Office: Halkirk, Alberta.

Mine Surveyor: David Jones.
 Overman: A. O'Brien.
 Thickness of Seam: 6 feet.
 Thickness of Cover: 35 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 11, 12 and 14, Sec. 25, Tp. 40, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 627.
 Truck mine.
 Registered Trade Name: Active Coal.

Jones & Deen—Mine No. 1650

Mine Office: Forestburg, Alberta.
 Mine Surveyor: David Jones.
 Foreman: Eugene Deen.
 Thickness of Seam: 9ft.
 Thickness of Cover: 26ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 9, Sec. 32, Tp. 40, Rge. 15, W. 4th Mer.
 Coal Mining Lease Number: 5559.
 C.N.R. and Truck mine.
 Registered Trade Name: Mother's Pride Coal.

Michael & Martin Wisla—Mine No. 1674

Mine Office: Rosalind, Alberta.
 Mine Surveyor: David Jones.
 Overman: Michael Wisla.
 Thickness of Seam: 3ft. 10in.
 Thickness of Cover: 93ft. to 155ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 200ft.
 Coal Mining Lease Number: C.P.R. 657.
 Location of Mine: L.S. 1 and 8, Sec. 7, Tp. 43, Rge. 17, W. 4th Mer.
 Truck mine.
 Registered Trade Name: Rosalind Coal.

John C. Reed & Son—Mine No. 1677

Mine Office: Forestburg, Alberta.
 Overman: J. C. Reed.
 Thickness of Seam: 9ft.
 Thickness of Cover: 34ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Size of Shaft: 5ft. by 5ft. Depth of Shaft: 43ft.
 Location of Mine: L.S. 1, Sec. 2, Tp. 41, Rge. 16, W. 4th Mer.
 Coal Mining Lease Number: 5658.
 Truck mine.
 Registered Trade Name: B.B. Coal.

CHAMPION AREA

George Rhodes—Mine No. 136

Mine Office: Champion, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Overman: Cecil Rhodes.
 Thickness of Seam: 2ft. 9in.
 Thickness of Cover: 108ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 180ft.
 Location of Mine: L.S. 7, Sec. 8, Tp. 15, Rge. 22, West 4th Mer.
 Truck mine.
 Registered Trade Name: Therriault Coal.

P. Fontana & Sons—Mine No. 1509

Mine Office: Champion, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Overman: Peter Fontana.
 Thickness of Seam: 3 $\frac{1}{2}$ ft. to 4ft.
 Thickness of Cover: 96ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 300ft.
 Location of Mine: L.S. 15, Sec. 33, Tp. 15, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: 5290.
 Truck mine.
 Registered Trade Name: Champion Coal.

Mike Popovich—Mine No. 1565

Mine Office: Champion, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Overman: Mike Popovich.
 Thickness of Seam: 3½ ft.
 Thickness of Cover: 105 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 4 ft. by 6 ft. Depth of Slope: 225 ft.
 Location of Mine: L.S. 9, Sec. 8, Tp. 16, Rge. 23, W. 4th Mer.
 Truck mine.
 Registered Trade Name: Ellis Coal.

COALSPUR AREA**Sterling Collieries, Ltd.—Mine No. 769**

Authorized Capital: \$500,000.
 Name of President: C. B. Munson.
 Names of Directors: W. F. Stevenson, S. W. Field, H. R. Milner, C. B. Munson, and F. J. Mitchell.
 Name of Sec.-Treas.: F. J. Mitchell.
 Head Office: 912 McLeod Building, Edmonton, Alberta.
 Mine Office: Sterco, Alberta.
 General Manager: W. F. Stevenson.
 Mine Manager: R. G. Walker.
 Mine Surveyor: A. Fraser.
 Thickness of Seam: 50 to 100 ft.
 Thickness of Cover: 25 to 125 ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 12, Sec. 35, Tp. 47, Rge. 20, W. 5th Mer.
 Coal Mining Lease Number: 5663.
 Mine located on C.N.R.
 Registered Trade Name: Sterling Coal.

The Foothills Collieries, Ltd.—Mine No. 771

Authorized Capital: \$300,000.
 Name of President: A. W. Windatt.
 Names of Directors: A. E. Windatt, E. H. Bennest, K.C., C. D. Shepard, Hugh Wallace, F. S. Andrews, K.C., Rt. Hon. Lord Gort.
 Name of Sec.-Treas.: C. G. Shepard.
 Mine Office: Foothills, Alberta.
 General Manager: Wm. Morris.
 Mine Surveyor: L. C. Stevens.
 Overman: E. Griffiths.
 Firebosses: Jack Mitchell, Evan Richards, Russell Butts, Harold Rhodes, Jack Hogg.
 Thickness of Seam: 8 ft.
 Thickness of Cover: 0 to 800 ft.
 Inclination of Seam: 20 to 22 degrees.
 Form of Opening: Slope. Size of Slope: 10 ft. by 8 ft. Depth of Slope: 2400 ft.
 Location of Mine: L.S. 2, 7, 10 and 15, Sec. 24, Tp. 47, Rge. 20, W. 5th Mer.
 Coal Mining Lease Number: 5344.
 Mine located on C.N.R.
 Registered Trade Name: Foothills Coal.

McLeod River Hard Coal Co. (1941), Ltd.—Mine No. 846

Authorized Capital: \$50,000.
 Name of Chairman: F. Ronald Graham.
 Name of President: N. R. Whittall.
 Names of Directors: George Kidd, F. B. Brown, H. R. Plommer.
 Name of Sec.-Treas.: S. V. Isaacson.
 Head Office: Nanaimo, B.C.
 Mine Office: Mercoal, Alberta.
 Managing Director: H. R. Plommer.
 Mine Manager: L. V. Chavignaud.
 Mine Surveyor: C. M. Murray.
 Overman: J. Rochester.
 Thickness of Seam: 9 ft.
 Thickness of Cover: 0 ft. to 800 ft.
 Inclination of Seam: 33° to 45°.
 Form of Opening: Slope. Size of Slope: 8 ft. by 12 ft. Depth of Slope: 1600 ft.
 Location of Mine: L.S. 4, Sec. 25, Tp. 48, Rge. 22, W. 5th Mer.
 Coal Mining Lease Number: 5684.

Mine located on C.N.R.
 Registered Trade Name: McLeod River Hard Coal.

Coal Valley Mining Co., Ltd.—Mine No. 1002

Authorized Capital: \$1,000,000.
 Name of President: C. B. Munson.
 Name of Directors: S. W. Field, C. B. Munson, H. R. Milner, W. F. Stevenson, F. J. Mitchell.
 Name of Sec.-Treas.: W. C. Willetts.
 Head Office: 705 McLeod Building, Edmonton, Alberta.
 Mine Office: Coal Valley, Alberta.
 General Manager: W. F. Stevenson.
 Mine Manager: A. A. Fraser.
 Mine Surveyor: A. A. Fraser.
 Foreman: M. Fortin.
 Blaster: N. Lovenuik.
 Thickness of Seam: 190 to 300 ft.
 Thickness of Cover: 15 ft. to 100 ft.
 Inclination of Seam: 40 degrees.
 Form of Opening: Strip mine.
 Location of Mine: W. ½ of L.S. 10, Sec. 25, Tp. 47, Rge. 20, W. 5th Mer.
 Coal Mining Lease Numbers: 5391, 5414, 5415.
 Mine located on C.N.R.
 Registered Trade Name: Cova Coal.

Bryan Hard Coal Co. Ltd.—Mine No. 1157

Head Office: 309 Agency Bldg., Edmonton, Alberta.
 Mine Office: Robb, Alberta.
 Mine Manager: W. McKay.
 Mine Surveyor: L. C. Stevens.
 Firebosses: R. Vovnovich, Wm. Burrell.
 Thickness of Seam: 10 feet.
 Thickness of Cover: 350 feet.
 Inclination of Seam: 36 degrees.
 Form of Opening: Slope. Size of Slope: 7 ft. by 12 ft. Depth of Slope: 650 feet.
 Location of Mine: L.S. 11, Sec. 15, Tp. 49, Rge. 21, West 5th Mer.
 Coal Mining Lease Number: 5315.
 Mine located on C.N.R.
 Registered Trade Name: Bryan Mountain Hard Coal.

CROWSNEST AREA**West Canadian Collieries, Ltd.—Mine No. 87**

Authorized Capital: \$2,900,000.
 Name of President: Edouard Rasson.
 Names of Directors: M. Whitmore, Mr. Dunning, Mr. Bernard, Mr. Decoster, Mr. Beaubien.
 Name of Secretary: G. H. Labyt.
 Head Office: 833 Salisbury House, London Wall, England.
 Mine Office: Bellevue, Alberta.
 General Manager: J. A. Brusset.
 Mine Manager: M. H. Congdon.
 Mine Surveyor: L. M. Dworkin.
 Overmen: D. Rees, C. Young, D. Hutton, G. Goodwin, A. Goodwin, A. Grant.
 Firebosses: S. Comin, J. Radford, A. Longworth, P. McLafferty, D. Morris, G. Cousens, E. Coates, H. White, W. Prescott, C. Olitch, E. Emmerson, J. Michayluk, W. Alexander.
 Thickness of Seam: 0 ft. to 20 ft.
 Thickness of Cover: 0 to 1,000 feet.
 Inclination of Seam: 0 to 90 deg.
 Form of Opening: Adit.
 Location of Mine: L.S. 10, Sec. 20, Tp. 7, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: M.S. 231.
 C.P.R. and Truck mine.
 Registered Trade Name: Bellevue Coal.

International Coal & Coke Co., Ltd.—Mine No. 88

Authorized Capital: \$3,000,000.
 Name of President: H. A. Howard.
 Names of Directors: H. A. Howard, Hugh Davidson, James Black, C. M. Warren,

R. G. Anderson, A. L. Johannson, James Buchanan, R. R. McNaughton, G. A. Wallinger.
 Name of Secretary: P. A. Dickieson.
 Name of Treasurer: J. Emmerson.
 Mine Office: Coleman, Alberta.
 General Manager: J. J. McIntyre.
 Mine Manager: William B. Fraser.
 Mine Surveyor: H. E. Hewitt.
 Overmen: Allan J. Brown, E. Hill, A. Tiberghien.
 Firebosses: J. Hillary, J. Fraser, J. P. McIntyre, L. Richards, A. Jones, J. Moore Sr., P. Topak, L. Hotte, A. Phillips, V. Brown, J. Lowe, T. Donaldson, B. Fontana, G. Marconi.
 Thickness of Seam: 5 to 12 ft.
 Thickness of Cover: 2000 ft.
 Inclination of Seam: 30 deg.
 Form of Opening: Slope and Adit. Size of Slope: 12 ft. by 10 ft. Depth of Slope: 3400 ft.
 Location of Mine: L.S. 11, Sec. 8, Tp. 8, Rge. 4, W. 5th Mer.
 Coal Mining Lease Number: 2886.
 C.P.R. and Truck mine.
 Registered Trade Name: International Coal.

**Hillcrest-Mohawk Collieries, Ltd.—
 Mine No. 133**

Authorized Capital: \$1,250,000.00.
 Name of President: Frank P. Turville.
 Names of Directors: Frank P. Turville, Eric Richardson, Frank J. Harquail, Mervin Graves, J. Colin Kemp.
 Name of Secretary: Frank J. Harquail.
 Name of Treasurer: Eric Richardson.
 Head Office: 903 Lancaster Bldg., Calgary, Alberta.
 Mine Office: Bellevue, Alberta.
 General Manager: Frank J. Harquail.
 General Superintendent: Henry Miller.
 Mine Manager: William Goodwin.
 Mine Surveyor: A. E. Williams.
 Overmen: John Ironmonger, J. Shearer, J. Curry, M. Bianchini.
 Firebosses: Richard Clarke, Alfred White, Luis Luini, John T. Griffiths, Jack Maddison, Armand Bionchi, Robert Kerr, Steve Lesson, John Gresl, Bruno Tamborini, Vendel Molnar, Andrew Craig, John McDade, Earnie Lawrence.
 Thickness of Seam: 10 ft.
 Thickness of Cover: 800 feet.
 Inclination of Seam: 5° to vertical.
 Form of Opening: Slope.
 Location of Mine: S.E. ¼ Sec. 21, Tp. 7, Rg. 3, West 5th Mer.
 Coal Mining Lease Number: C.L.S.
 C.P.R. and Truck mine.
 Registered Trade Name: Hillcrest-Mohawk Coal.

Beaver Mines Coal Co.—Mine No. 199

Authorized Capital: \$10,000.
 Mine Office: Beaver Mines, Alberta.
 Mine Surveyor: F. W. Utley.
 Overman: D. Pollo.
 Thickness of Seam: 6½ ft. to 9 ft.
 Thickness of Cover: 70 feet.
 Inclination of Seam: 30 to 40 deg.
 Form of Opening: Drift.
 Location of Mine: L.S. 2, Sec. 12, Tp. 7, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: 5668.
 Mine located on C.P.R.
 Registered Trade Name: Beaver Mine Coal.

**McGillivray Creek Coal & Coke Co.,
 Ltd.—Mine No. 204**

Authorized Capital: \$3,000,000.
 Name of President: H. A. Howard.
 Names of Directors: H. A. Howard, A. L. Johannson, R. G. Anderson, G. A. Wallinger, R. R. McNaughton, G. M.

Warren, H. A. Thoeny.
 Name of Sec.-Treas.: S. C. Short.
 Mine Office: Coleman, Alberta.
 General Manager: John T. McIntyre.
 Mine Manager: Andrew Wilson.
 Mine Surveyor: A. E. Graham.
 Overmen: E. Allen, W. Lonsbury.
 Firebosses: W. Anderson, A. Beveridge, R. Campbell, A. Galbraith, W. Hopkins, A. Keith, M. Kubica Jr., R. Morris, J. Ondrik, A. Panek, R. Parry, J. J. Sikora, P. Smith, H. Urwin.
 Thickness of Seam: No. 2 Seam, 9 ft.; No. 4 Seam, 4½ ft.
 Thickness of Cover: 0 to 2,400 feet.
 Inclination of Seam: 35 degrees.
 Form of Opening: Slope. Size of Slope: 8 ft. by 12 ft. Depth of Slope: 4,500 ft.
 Location of Mine: S.W. ¼ L.S. 2, Sec. 17, Tp. 8, Rge. 4, W. 5th Mer.
 Coal Mining Lease Numbers: S. L. 305, 5501, 5673.
 C.P.R. and Truck mine.
 Registered Trade Name: McGillivray Creek Coal.

**West Canadian Collieries, Ltd.—
 Mine No. 396**

Authorized Capital: \$2,900,000.
 Name of President: E. Rasson.
 Name of Directors: Mr. Bernard, Mr. Dunning, Mr. Whitmore, Mr. Decoster, Mr. Beaubien.
 Name of Secretary: G. H. Labyt.
 Head Office: 833 Salisbury House, London Wall, London, Eng.
 Mine Office: Blairmore, Alberta.
 General Manager: J. A. Brusset.
 Mine Manager: T. E. Morgan.
 Asst. Mine Manager: M. Aschacker.
 Mine Surveyor: D. T. Brown.
 Overmen: M. Hamilton, L. Huick, D. McLafferty, R. Tonge, J. Davies.
 Firebosses: D. Morgan, R. Blake, R. Draper, C. Miller, A. Rae, I. Walker, J. Patterson, C. Cartwright, A. Avans, J. Sharetta, A. Tiber, J. McIsaac, J. Deidzie, G. Gibson, D. Kemp, J. McAndrews, T. Hadwell.
 Thickness of Seam: 5 to 16 feet.
 Thickness of Cover: 0 to 1,000 feet.
 Inclination of Seam: 40 degrees.
 Form of Opening: Adit.
 Location of Mine: L.S. 10, Sec. 2, Tp. 8, Rge. 4, W. 5th Mer.
 Coal Mining Lease Numbers: C.L.S. 126, 506.
 C.P.R. and Truck mine.
 Registered Trade Name: Greenhill Coal.

**West Canadian Collieries, Ltd.—
 Mine No. 1584**

Authorized Capital: \$2,900,000.
 Name of President: E. Rasson.
 Names of Directors: Mr. Bernard, Mr. Dunning, Mr. Whitmore, Mr. Decoster, Mr. Beaubien.
 Name of Secretary: G. H. Labyt.
 Head Office: 833 Salisbury House, London Wall, London, Eng.
 Mine Office: Blairmore, Alberta.
 General Manager: J. A. Brusset.
 Mine Manager: H. H. Gardner.
 Mine Surveyor: L. W. Dwardin.
 Overmen: C. McDonald, R. Blake.
 Firebosses: D. Rees, R. Morris, J. Senycz, W. Donaldson, C. Dambois, H. Hulbert, K. McDonald.
 Thickness of Seam: 12 feet.
 Thickness of Cover: 50 ft.
 Inclination of Seam: 15 to 70 deg.
 Form of Opening: Drift.
 Location of Mine: L.S. 15, Sec. 31, Tp. 6, Rge. 3, W. 5th Mer.
 Coal Mining Lease Numbers: M-94, M-174.
 C.P.R. mine.
 Registered Trade Name: Adanac Coal.

DRUMHELLER AREA**Rosedale Collieries, Ltd.—Mine No. 346**

Authorized Capital: \$20,000.00.
 Head Office: 909 Lancaster Building,
 Calgary, Alberta.
 Mine Office: Rosedale, Alberta.
 General Manager: Russell Richards.
 Mine Manager: T. Rappell.
 Mine Surveyor: R. Richards.
 Overmen: R. Bradshaw and Wm. Jones.
 Firebosses: H. Sladek, W. Roberts, J.
 Ewing, A. Sladek, S. Berlando, J.
 Zambo, J. Strecker.
 Thickness of Seam: 3ft. to 6½ft.
 Thickness of Cover: 450 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 11ft. by 15ft.. Depth of Shaft: 45 ft.
 Location of Mine: L.S. 14, Sec. 28, Tp. 28,
 Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 5038, 5039.
 Mine located on C.N.R.
 Registered Trade Name: Rosedale Coal.

**Midland Coal Mining Co. Ltd.—
Mine No. 367**

Authorized Capital: \$50,000.
 Name of President: Mrs. S. L. McMullen.
 Names of Directors: S. G. McMullen, W.
 R. Sandercock.
 Name of Secretary: S. G. McMullen.
 Mine Office: Drumheller, Alberta.
 Mine Manager: A. A. Millar.
 Mine Surveyor: A. G. Macaulay.
 Overman: William Kennedy.
 Firebosses: M. Bobrosky, C. Boughton, F.
 DeBernardo, J. Evans, T. Gibson, W.
 Holowatuik, J. Jubb, H. Looten, A.
 McKinnon, J. Petit.
 Thickness of Seam: 5 feet.
 Thickness of Cover: Up to 520 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 9ft. by 19ft. Depth of Shaft: 135 feet.
 Location of Mine: L.S. 14, Sec. 9, Tp. 29,
 Rge. 20, West of 4th Mer.
 Coal Mining Lease Numbers: 5068, 5626,
 5496.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Midland Coal.

**Red Deer Valley Coal Co., Ltd.—
Mine No. 402**

Authorized Capital: \$347,100.
 Name of President: Wm. S. Howland.
 Names of Directors: Wm. S. Howland,
 Mary A. Howland, Louise M. Howland,
 Ward H. Patterson.
 Name of Sec.: Ward H. Patterson.
 Head Office: Box 20, Drumheller, Alta.
 Mine Office: Nacmine, Alta.
 General Manager: U. S. Ansley.
 Mine Manager: I. N. Potter.
 Mine Surveyor: A. G. Macaulay.
 Overmen: A. F. Courterelle, J. Barrie,
 Wm. Barclay.
 Firebosses: R. Clack, G. Cumberland, C.
 Atkinson, P. Good, N. Duncan, H.
 Roberts, G. Anderson, I. Folden, J.
 Elliot.
 Thickness of Seam: 5ft. to 6ft.
 Thickness of Cover: 180 to 550 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft and Slope: Size
 of Shaft: 15ft. by 8ft. Depth of
 Shaft: 185 ft. Size of Slope: 11ft. by
 7ft. Depth of Slope: 650ft. at 17 deg.
 Location of Mine: N.E. ¼ Rd. Allow. Sec.
 18, Tp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Numbers: 5196, 5556,
 5606, 5629.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Glocoal.

Commander Coal Co.—Mine No. 422

Name of President: Brig. L. Patrick.
 Head Office: Calgary, Alberta.
 Mine Office: Drumheller, Alberta.
 General Manager: Brig. L. Patrick.

Mine Manager: A. C. Hnatyshyn.
 Mine Surveyor: A. C. Hnatyshyn.
 Overmen: D. Mayoh and R. Raisbeck.
 Firebosses: W. Morse, M. Trevethin, R.
 Keith, R. Halbert, A. Thomson, J.
 Oxbury, G. Wheatcrop.
 Thickness of Seam: 4ft. 9in.
 Thickness of Cover: 600ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 12ft. by 20ft. Depth of Shaft: 166 ft.
 Location of Mine: L.S. 5, Sec. 9, Tp. 29,
 Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: 2379.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Commander
 Coal.

Rosedale Collieries Ltd.—Mine No. 436

Mine Office: Aerial, Alberta.
 Mine Manager: W. Hibbert.
 Mine Surveyor: R. Richards.
 Overman: S. Appleby.
 Firebosses: E. Davis, I. C. Radocy, T.
 Sirko, P. Kennikan, P. Ludwig.
 Thickness of Seam: 6½ft.
 Thickness of Cover: 500ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: S.E. ¼ L.S. 7, Sec. 28,
 Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Numbers: 5104, 5105.
 C.N.R. and C.P.R. mine.
 Registered Trade Name: Star Coal.

Newcastle Collieries Ltd.—Mine No. 620

Authorized Capital: \$300,000.
 Name of President: Wilson Gouge.
 Names of Directors: Jesse Gouge, Wilson
 Gouge, J. Cook, R. E. Coyle.
 Name of Secretary-Treasurer: Jesse
 Gouge.
 Mine Office: Drumheller, Alberta.
 General Manager: Jesse Gouge.
 Mine Manager: Thomas Campbell.
 Mine Surveyor: J. Robertson.
 Overman: J. McCutcheon.
 Firebosses: E. Harris, W. Henry, J. White-
 head, A. Armstrong, C. Dunn, R. For-
 shaw, C. Currie.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 500ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 10ft. by 12ft. Depth of Shaft: 100ft.
 Location of Mine: S.W. ¼ of Sec. 3, Tp.
 29, Rge. 20, West 4th Mer.
 Coal Mining Lease Numbers: 5046, 5052.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Newcastle Coal.

Maple Leaf Coal Co. Ltd.—Mine No. 728

Mine Office: Drumheller, Alberta.
 General Manager: D. H. Smith.
 Mine Manager: A. G. Macaulay.
 Mine Surveyor: A. G. Macaulay.
 Overman: W. Menzies.
 Firebosses: G. Unsworth, F. Kane.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 200 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 13, Sec. 32, Tp. 27,
 Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5303.
 C.N.R. and C.P.R. mine.
 Registered Trade Name: National Coal.

Brilliant Coal Company—Mine No. 1258

Authorized Capital: \$300,000.00.
 Name of President: J. A. Sandino.
 Mine Office: Drumheller, Alberta.
 General Manager: J. A. Sandino.
 Mine Manager: R. Dunn.
 Mine Surveyor: L. C. Stevens.
 Overman: J. Saunt.
 Firebosses: T. McNeill, R. Stocco, J.
 March, F. Elkes.
 Thickness of Seam: 6 feet.
 Thickness of Cover: 400 to 450 feet.

Inclination of Seam: Horizontal.
 Form of Opening: Shaft and slope. Size of shaft: 8ft. by 12ft. Depth of Shaft: 120 feet. Size of Slope: 6ft. by 8ft. Depth of Slope: 450 feet.
 Location of Mine: L.S. 14, Sec. 10, Tp. 29, Rge. 20 W. 4th Mer.
 Coal Mining Lease Number: 5282.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Brilliant Coal.

Saskatchewan Federated Co-operatives, Ltd.—Mine No. 1299

Authorized Capital: \$5,000,000.
 Name of President: G. Urwin.
 Names of Directors: G. P. Baker, L. J. Bright, J. A. Bryson, J. B. Bryson, J. F. Gray, O. A. Herde, L. L. Loyd, W. E. Mills, C. R. Smith, Geo. Urwin, H. C. Watson.
 Name of Secretary: H. L. Fowler.
 Name of Treasurer: E. T. Mowbrey.
 Head Office: Saskatoon, Saskatchewan.
 Mine Office: East Coulee, Alberta.
 General Manager: John T. Burton.
 Mine Manager: Philip Melson.
 Mine Surveyor: A. G. Macaulay.
 Overmen: J. Young, J. Clyne.
 Firebosses: W. C. McFegan, M. Ostrosek, M. Morel, J. Tennant.
 Thickness of Seam: 6ft.
 Thickness of Cover: 300 to 350ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: S.E. $\frac{1}{4}$ of Sec. 32, Tp. 27, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: 5349.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Empire Coal.

Hy-Grade Coal Mining Co., Ltd.—Mine No. 1421

Mine Office: Drumheller, Alberta.
 General Manager: J. T. Burton.
 Mine Manager: John Robertson.
 Mine Surveyor: John Robertson.
 Overmen: J. Burton, J. Farmer.
 Firebosses: P. Snow, J. Chiuppi, N. Blackett, B. Farmer, F. J. Keough, J. Taylor, F. Ellison, H. Darbyshire.
 Thickness of Seam: $5\frac{1}{2}$ ft.
 Thickness of Cover: 100 to 600ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 6ft. by 16ft. Depth of Shaft: 88ft.
 Location of Mine: L.S. 4, 5 and 12, Sec. 14, Tp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Numbers: 2458, 5473, Rd. 242.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Hy-Grade Coal.

Royalty Coal Mining Co.—Mine No. 1436

Name of President: Ferral Jensen.
 Names of Directors: F. Jensen, A. H. Pedersen, N. Surrendi.
 Name of Sec.-Treas.: N. Surrendi.
 Mine Office: Wayne, Alberta.
 Mine Surveyor: J. Robertson.
 Overman: N. Surrendi.
 Thickness of Seam: 4ft.
 Thickness of Cover: 200ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 13, Sec. 20, Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 465.
 Truck mine.
 Registered Trade Name: Royalty Coal.

Regal Coal Co. Ltd.—Mine No. 1484

Head Office: 228 Examiner Bldg., Calgary, Alberta.
 Mine Office: East Coulee, Alberta.
 Mine Manager: Hugh Crawford.
 Mine Surveyor: A. Hnatyshyn.
 Overman: S. Mather.
 Firebosses: J. Ralsbeck, W. Mather, A. Andrew, A. James, W. Koehler, J. MacKenzie, F. Kerr.

Thickness of Seam: 5ft. 2in.
 Thickness of Cover: 200 to 400 ft.
 Inclination of Seam: Undulating.
 Form of Opening: Drift.
 Location of Mine: N.W. $\frac{1}{4}$ of L.S. 13, Sec. 21, Tp. 27, Rge. 18, West 4th Mer.
 Coal Mining Lease Number: C.P.R. 534.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: New Wildfire Coal.

Murray Collieries, Ltd.—Mine No. 1491

Authorized Capital: \$100,000.
 Name of President: H. K. Reed.
 Names of Directors: Henry K. Reed, Donald C. McVeigh.
 Mine Office: East Coulee, Alberta.
 Mine Manager: Hugh G. McKinnon.
 Mine Surveyor: L. C. Stevens.
 Overman: T. McDonald.
 Firebosses: J. Cotterill, Wm. L. Shephard, Robt. Anderson, Wm. H. Mullinger, Robert Steven, A. B. Ralsbeck, J. Crawford.
 Thickness of Seam: 5ft. 4in.
 Thickness of Cover: 100ft. to 380ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: S.E. $\frac{1}{4}$, Sec. 29, Tp. 27, Rge. 18, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 539.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: New Murray Coal.

Western Gem & Jewel Collieries, Ltd.—Mine No. 1493

Authorized Capital: \$750,000.
 Name of President: Alex. Robertson.
 Names of Directors: Alex. Robertson, Steward Robertson, H. H. Albright, W. P. Gamble, D. M. Henderson.
 Name of Sec.-Treas.: H. H. Albright.
 Head Office: 607 Lancaster Bldg., Calgary, Alberta.
 Mine Office: Cambria, Alberta.
 General Manager: Alex. Robertson.
 Mine Manager: N. Howells.
 Mine Surveyor: John Robertson.
 Overman: John Conlin.
 Firebosses: T. Gordon, F. Zaputil, W. Kay, R. Niblett, M. Vandekinder, J. Page.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 400 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 1, 2 and 14, Sec. 15, Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 5341.
 C.N.R. and C.P.R. mine.
 Registered Trade Name: Cambrian Coal.

Aetna Coal Co.—Mine No. 1511

Authorized Capital: \$50,000.00.
 Name of President: J. J. O'Dwyer.
 Name of Directors: M. A. O'Dwyer and J. J. O'Dwyer.
 Name of Sec.-Treas.: M. A. O'Dwyer.
 Head Office: Wayne, Alberta.
 Mine Office: Cambria, Alberta.
 General Manager: M. A. O'Dwyer.
 Mine Surveyor: A. Hamilton.
 Overman: W. Sarsfield.
 Fireboss: M. Ramsay.
 Thickness of Seam: $5\frac{1}{2}$ ft.
 Thickness of Cover: 300ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 10ft. by 5ft. Depth of Slope: 100 ft.
 Location of Mine: L.S. 1, Sec. 22, Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: 5039.
 C.N.R. and C.P.R. mine.
 Registered Trade Name: Aetna Coal.

T. Holt & H. Shoultz—Mine No. 1515

Mine Office: Willow Creek, Alberta.
 Mine Surveyor: David Jones.
 Thickness of Seam: $3\frac{1}{2}$ ft.

Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 10, 11, 14 and 15,
Sec. 22, Tp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5279.
Registered Trade Name: Willow Creek
Best Coal.

The Minute Coal Co.—Mine No. 1520

Mine Office: Drumheller, Alberta.
General Manager: J. A. McKenzie.
Mine Surveyor: A. G. Macaulay.
Overman: J. Sinclair.
Fireboss: M. Hillary.
Thickness of Seam: 5 to 5½ ft.
Thickness of Cover: 200 feet.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: L.S. 3, 6 and 11, Sec.
14, Tp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2793.
C.N.R. and C.P.R. mine.
Registered Trade Name: Good Quality
Coal.

Wayne Co-op. Assoc. Ltd.—Mine No. 1544

Authorized Capital: \$20,000.
Name of President: Quinto Pozzo.
Name of Directors: Quinto Pozzo, Gino
Pozzo, Angelo Pozzo, John Blair.
Name of Sec.-Treas.: John Blair.
Mine Office: Wayne, Alberta.
Surveyor: Gordon L. Kidd.
Overman: John Blair.
Thickness of Seam: 6 feet.
Thickness of Cover: 250 feet.
Inclination of Seam: 30 deg.
Form of Opening: Slope. Size of Slope:
7ft. by 10ft. Depth of Slope: 200ft.
Location of Mine: S.W. ¼ of Sec. 17, Tp.
28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5521.
C.N.R. and Truck mine.
Registered Trade Name: Castle Coal.

Sovereign Coal Co., Ltd.—Mine No. 1570

Authorized Capital: \$10,000.
Name of President: J. J. O'Dwyer.
Name of Sec.-Treas.: M. A. O'Dwyer.
Mine Office: Wayne, Alberta.
General Manager: J. J. O'Dwyer.
Mine Surveyor: A. G. Macaulay.
Overman: R. Stevenson.
Firebosses: J. Redpath, E. J. Thomas.
Thickness of Seam: 8ft.
Thickness of Cover: 350ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
6ft. by 6ft. Depth of Slope: 120ft.
Location of Mine: N.E. ¼ L.S. 8, Sec. 7,
Tp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.P.R., C.N.R. and Truck mine.
Registered Trade Name: Sovereign Coal.

**The Monarch Coal Mining Co., Ltd.
—Mine No. 1573**

Authorized Capital: \$311,500.
Name of President: E. A. Lovett.
Names of Directors: E. A. Lovett, H. R.
Narraway, T. C. Boyd, D. Macneil, O.
I. Gilbert.
Name of Sec.-Treas.: H. R. Narraway.
Head Office: 405A 8th Avenue West, Cal-
gary, Alberta.
Mine Office: East Coulee, Alberta.
General Manager: E. A. Lovett.
Mine Manager: Terrance Smith.
Mine Surveyor: L. C. Stevens.
Overman: J. Harries.
Firebosses: A. Black, W. Marsh, F. Simp-
son, R. Cowan, W. Runge, N. Morri-
son, B. Gerla.
Thickness of Seam: 5ft.
Thickness of Cover: 400ft.
Inclination of Seam: Undulating.
Form of Opening: Drift.
Location of Mine: L.S. 1, Sec. 20, Tp. 27,
Rge. 18, West 4th Mer.

Coal Mining Lease Number: C.P.R. 587.
C.N.R. and C.P.R. mine.
Registered Trade Name: Western Mon-
arch Coal.

John Hamilton—Mine No. 1583

Mine Office: Delia, Alberta.
Mine Manager: John Hamilton.
Mine Surveyor: David Jones.
Thickness of Seam: 3ft. 4in.
Thickness of Cover: 300 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
3ft. Depth of Slope: 200ft.
Location of Mine: L.S. 7, 8, 9, 10, Sec.
23, Tp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5434.
Truck mine.
Registered Trade Name: Reliance Coal.

Arcadia Coal Mines, Ltd.—Mine No. 1589

Authorized Capital: \$50,000.
Name of President: B. K. Bullock.
Names of Directors: B. K. Bullock, Peter
Carls.
Name of Secretary: J. V. H. Milvain.
Name of Treasurer: B. K. Bullock.
Head Office: 405 McLean Block, Calgary,
Alberta.
Mine Office: Willow Creek, Alberta.
General Manager: B. K. Bullock.
Mine Surveyor: Allan Hamilton.
Overman: Allan Hamilton.
Firebosses: Wm. Allan, Paul Timm.
Thickness of Seam: 4½ ft.
Thickness of Cover: 0ft. to 200ft.
Inclination of Seam: Level and slight
undulations.
Form of Opening: Drift.
Location of Mine: L.S. 16, Sec. 7, Tp. 28,
Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5432.
C.N.R., C.P.R. and Truck mine.
Registered Trade Name: Purity Hard
Coal.

H. S. Chambers—Mine No. 1599

Mine Office: Drumheller, Alberta.
Mine Surveyor: A. G. Macaulay.
Foreman: H. S. Chambers.
Thickness of Seam: 3ft.
Thickness of Cover: 20 feet.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 12, Sec. 23, Tp.
28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5458.
Truck mine.
Registered Trade Name: Burn Brite Coal.

J. Wakaruk—Mine No. 1655

Mine Office: Drumheller, Alberta.
Mine Surveyor: A. G. Macaulay.
Overman: George Wakaruk.
Thickness of Seam: 4½ ft.
Thickness of Cover: 200ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
6ft. by 8ft. Depth of Slope: 65ft.
Location of Mine: W. and E. ½ L.S. 9 and
10, Sec. 22, Tp. 29, Rge. 20, W. 4th
Mer.
Coal Mining Lease Number: 5593.
Truck mine.
Registered Trade Name: Cozy Coal.

John S. Hackler—Mine No. 1660

Mine Office: Wayne, Alberta.
Mine Manager: John Blair.
Mine Surveyor: A. G. Macaulay.
Overman: J. Redpath.
Thickness of Seam: 2ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope:
7ft. by 7ft. Depth of Slope: 3 ft.
Location of Mine: L.S. 2, Sec. 18, Tp. 28,
Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 651.
Registered Trade Name: Ball Coal.

Allan Livingstone—Mine No. 1666

Mine Office: Nacmine, Alberta.
 Mine Surveyor: A. G. Macaulay.
 Foreman: A. Livingstone.
 Thickness of Seam: 3ft.
 Thickness of Cover: 15ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 16, Sec. 16, Tp. 28, Rge. 19, West 4th Mer.
 Coal Mining Lease Number: C.P.R. 630.
 Truck mine.
 Registered Trade Name: Livingstone Coal.

Victor Leonhardt—Mine No. 1668

Mine Office: Drumheller, Alberta.
 Mine Manager: Victor Leonhardt.
 Foreman: Gust Lippolt.
 Thickness of Seam: 2ft.
 Thickness of Cover: 10 to 30ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 3, Sec. 12, Tp. 29, Rge. 20, W. 4th Mer.
 Coal Mining Lease Number: 5641.
 Truck mine.
 Registered Trade Name: Lion Coal.

Joy Coal Mining Co. Ltd.—Mine No. 1669

Mine Office: Wayne, Alberta.
 Mine Surveyor: A. G. Macaulay.
 Foreman: W. Young.
 Thickness of Seam: 3ft.
 Thickness of Cover: 300ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 11, 12 and 13, Sec. 18, Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 650.
 Truck mine.
 Registered Trade Name: Joy Coal.

John Gallagher—Mine No. 1680

Mine Office: Rosedale, Alberta.
 Mine Surveyor: A. G. Macaulay.
 Overman: John Gallagher.
 Thickness of Seam: 3½ft.
 Thickness of Cover: 300ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 7, 8 and 9, Sec. 19, Tp. 28, Rge. 19, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 671.
 Truck mine.
 Registered Trade Name: Blackball Coal.

EDMONTON AREA**E. Woytowich & M. Senetchko—Mine No. 29**

Head Office: 11240 93rd Street, Edmonton, Alberta.
 Mine Office: Rabbit Hill, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: Emil Woytowich.
 Thickness of Seam: 4½ feet.
 Thickness of Cover: 109 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope: 7ft. by 6ft. Depth of Slope: 140 ft.
 Location of Mine: L.S. 11, Sec. 25, Tp. 51, Rge. 25 W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 399.
 Truck mine.
 Registered Trade Name: Excel Coal.

Ottewell Coal Co. Ltd.—Mine No. 91

Authorized Capital: \$10,000.
 Mine Office: Clover Bar, Alberta.
 General Manager: W. J. Ottewell.
 Mine Surveyor: L. C. Stevens.
 Overman: Jas. Carson.
 Thickness of Seam: 4 feet.
 Thickness of Cover: 85ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 8ft. by 9ft. Depth of Shaft: 90ft.

Location of Mine: S.W. ¼ L.S. 4, Sec. 17, Tp. 53, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: Ed. Sak. Land.
 Truck mine.
 Registered Trade Name: Clover Gem Coal.

Great West Coal Co., Ltd.—Mine No. 99

Authorized Capital: \$150,000.
 Name of President: A. C. Dunn.
 Names of Directors: A. C. Dunn, Mayne Reid, W. S. Cupples.
 Name of Secretary-Treasurer: Thomas S. Campbell.
 Head Office: 10157 102nd St., Edmonton, Alberta.
 Mine Office: Clover Bar, Alberta.
 General Manager: A. C. Dunn.
 Mine Manager: Robert Dalziel.
 Mine Surveyor: Robert A. Dunn.
 Overman: Angus Park.
 Firebosses: W. Thomson, D. Quaife, H. Harpham, W. Dalziel, R. Chalmers, G. Muir.

Thickness of Seam: 4 to 6½ feet.
 Thickness of Cover: 140 to 210 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope and Shaft. Size of Shaft: 6ft. by 8ft. Depth of Shaft: 150 to 180 feet. Size of Slope: 10ft. by 6ft. Depth of Slope: 140 feet.
 Location of Mine: S.E. ¼ L.S. 10, Sec. 7, Tp. 53, Rge. 23, W. 4th Mer.
 Coal Mining Lease Number: M.S. 235.
 C.N.R. and Truck Mine.
 Registered Trade Name: Black Diamond Coal.

Sundance Mines, Ltd.—Mine No. 129

Authorized Capital: \$30,000.
 Name of President: Paul H. Cote.
 Names of Directors: E. Tucker, Paul H. Cote.
 Head Office: Edmonton, Alberta.
 Mine Office: Cardiff, Alberta.
 Mine Manager: Paul H. Cote.
 Mine Surveyor: L. C. Stevens.
 Foreman: C. Christiaens.
 Thickness of Seam: 8 feet.
 Thickness of Cover: 20ft. to 35ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: N.E. ¼ L.S. 16, Sec. 14, Tp. 55, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: 5669.
 N.A.R. and Truck mine.
 Registered Trade Name: Suncole.

Banner Coals, Ltd.—Mine No. 428

Authorized Capital: \$20,000.
 Name of President: J. B. Starky.
 Names of Directors: J. B. Starky, E. A. Mills, H. O. Patriquin.
 Name of Sec.-Treas.: E. A. Mills.
 Head Office: 10631 92nd St., Edmonton, Alberta.
 Mine Office: Carbondale, Alberta.
 General Manager: J. B. Starky.
 Mine Manager: James Kellock.
 Mine Surveyor: L. C. Stevens.
 Overman: James Kellock.
 Firebosses: J. Wilkinson, N. Neilson, D. Watson.
 Thickness of Seam: 4ft. 8in.
 Thickness of Cover: 175ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft: 14ft. by 8ft. Depth of Shaft: 175ft.
 Location of Mine: L.S. 10, Sec. 8, Tp. 55, Rge. 24, W. 4th Mer.
 Coal Mining Lease: Pat. R. Kelly.
 C.N.R., N.A.R. and Truck mine.
 Registered Trade Name: Penn Coal.

Black Point Mine—Mine No. 1034

Authorized Capital: \$12,000.00.
 Mine Office: Box 3124, South Edmonton, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: Alex. Scott.

Thickness of Seam: 4 feet.
 Thickness of Cover: 110 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6ft. by 8ft. Depth of Slope: 250 ft.
 Location of Mine: L.S. 6, Sec. 25, Tp. 51,
 Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 393.
 Truck mine.
 Registered Trade Name: Black Point Coal.

Long Coal Co. Ltd.—Mine No. 1098
 Authorized Capital: \$18,000.
 Name of President: M. L. Vitaly.
 Name of Director: A. F. Duncan.
 Name of Sec.-Treas.: Mrs. M. L. Vitaly.
 Mine Office: Namao, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: M. L. Vitaly.
 Thickness of Seam: 6 to 8 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Tunnel.
 Location of Mine: L.S. 4, Sec. 31, Tp. 54,
 Rge. 24, West 4th Mer.
 Coal Mining Lease: Pat. G. S. Long.
 Truck mine.
 Registered Trade Name: Hardite Coal.

J. E. & J. A. MacKinnon—Mine No. 1123
 Mine Office: R.R. 5, Edmonton, Alberta.
 Mine Surveyor: D. Jones.
 Overman: William Penni.
 Thickness of Seam: 4ft.
 Thickness of Cover: 200ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 13, Sec. 31, Tp.
 50, Rge. 26, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 670.
 C.P.R. and Truck mine.
 Registered Trade Name: Devon Coal.

Edmonton Collieries, Ltd.—Mine No. 1266
 Authorized Capital: \$20,000.
 Name of President: W. Gordon MacKay.
 Names of Directors: William G. MacKay,
 Harold W. Layton, C. C. Down.
 Name of Sec.-Treas.: Harold W. Layton.
 Head Office: 10322 105th St., Edmonton,
 Alberta.
 Mine Office: Namao, Alberta.
 General Manager: William G. MacKay.
 Mine Manager: A. Crawford.
 Mine Surveyor: L. C. Stevens.
 Overman: A. Johnstone.
 Fireboss: D. Watson.
 Thickness of Seam: 8ft. 6in.
 Thickness of Cover: 85ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6ft. by 7ft. Depth of Slope: 500ft.
 Location of Mine: L.S. 14, Sec. 36, Tp.
 54, Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 596.
 C.N.R., C.P.R., N.A.R. and Truck mine.
 Registered Trade Name: New Black Gem
 Coal.

Samis Collieries, Ltd.—Mine No. 1316
 Authorized Capital: \$40,000.
 Head Office: 203 Wallace Building, Ed-
 monton, Alberta.
 Mine Office: Namao, Alberta.
 General Manager: K. E. Samis.
 Mine Manager: Alex Lister.
 Mine Surveyor: L. C. Stevens.
 Overman: Alex. Lister.
 Fireboss: S. Samis.
 Thickness of Seam: 8ft.
 Thickness of Cover: 75 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6ft. Depth of Slope: 120ft.
 Location of Mine: L.S. 6, Sec. 36, Tp. 54,
 Rge. 25, W. 4th Mer.
 Coal Mining Lease: Pat. F. Donald (2861-
 5539).
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Samis Coal.

Red Hot Coal Co., Ltd.—Mine No. 1357
 Authorized Capital: \$23,000.
 Name of President: W. Fridel.
 Names of Directors: W. Fridel, Jos.
 Lang, C. Bruskiwicz, S. Kabacha, J.
 Tworek, J. Gorski.
 Name of Secretary-Treasurer: J. Lang.
 Head Office: 10659 93rd Street, Edmonton,
 Alberta.
 Mine Office: Forest Heights, Edmonton,
 Alberta.
 General Manager: William Fridel.
 Mine Manager: W. Smillie.
 Mine Surveyor: L. C. Stevens.
 Overman: J. Farmer.
 Firebosses: J. Farmer, J. Gorski.
 Thickness of Seam: 4 ft. 6in.
 Thickness of Cover: 100ft. to 180ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope. Size of Slope:
 6½ft. by 8ft. Depth of Slope: 600ft.
 Location of Mine: River Lot 33, Edmon-
 ton Settlement.
 Coal Mining Lease Number: 5052, M.S.
 632.
 Truck mine.
 Registered Trade Name: Red Hot Coal.

Beverly Coal Co., Ltd.—Mine No. 1366
 Authorized Capital: \$20,000.
 Name of President: L. H. Davidson.
 Names of Directors: L. H. Davidson, A. V.
 Carlson, Thos. E. Hays.
 Name of Secretary: J. McCartney.
 Name of Treasurer: Thos. E. Hays.
 Head Office: Beverly, Alberta.
 Mine Office: Beverly, Alberta.
 General Manager: L. H. Davidson.
 Mine Manager: Thomas Mather.
 Mine Surveyor: L. C. Stevens.
 Overman: Albert Williams.
 Firebosses: W. Plesuk, W. T. Price, D.
 Lamond.
 Thickness of Seam: 4ft. to 7ft.
 Thickness of Cover: 130ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 16ft. by 8ft. Depth of Shaft: 140ft.
 Location of Mine: L.S. 6, Sec. 13, Tp. 53,
 Rge. 24, W. 4th Mer.
 Coal Mining Lease Number: H.B.C.
 C.N.R., C.P.R. and Truck mine.
 Registered Trade Name: Beverly Coal.

Ottewell Coal Co.—Mine No. 1393
 Authorized Capital: \$10,000.
 Mine Office: Clover Bar.
 Mine Manager: W. J. Ottewell.
 Mine Surveyor: L. C. Stevens.
 Foreman: W. J. Ottewell.
 Thickness of Seam: 6ft.
 Thickness of Cover: 25ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Open pit.
 Location of Mine: Block X N.E. ¼, Sec.
 36, Tp. 52, Rge. 24, W. 4th Mer.
 Registered Trade Name: Marvel Coal.

Pine Creek Coal Co.—Mine No. 1419
 Mine Office: R.R. 3, South Edmonton,
 Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: Stephen Fridel.
 Thickness of Seam: 5ft.
 Thickness of Cover: 100ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Shaft. Size of Shaft:
 6ft. by 7ft. Depth of Shaft: 110ft.
 Location of Mine: L.S. 4, Sec. 25, Tp. 51,
 Rge. 25, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 331.
 Truck mine.
 Registered Trade Name: Pine Creek Coal.

Riverdale Coal Co., Ltd.—Mine No. 1463
 Authorized Capital: \$10,000.
 Name of President: John Mather.
 Names of Directors: John Mather, Anne
 Mather.
 Name of Sec.-Treas.: Anne Mather.

Head Office: 10311 Saskatchewan Drive, Edmonton, Alberta.
Mine Office: Carbondale, Alberta.
General Manager: John Mather.
Mine Manager: M. D. McLean.
Mine Surveyor: David Jones.
Overman: John March.
Firebosses: J. McMillan, Evan Hughes.
Thickness of Seam: 5ft.
Thickness of Cover: 90 feet.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: N.E. Corn. 14, Sec. 5, Tp. 55, Rge. 24, W. 4th Mer.
C.N.R., C.P.R. and Truck mine.
Registered Trade Name: Dependable Coal.

**G. S. Gwilliam and K. Samis—
 Mine No. 1496**

Authorized Capital: \$60,000.
Name of President: K. E. Samis.
Name of Sec.-Treas.: D. J. Gwilliam.
Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: K. E. Samis.
Mine Manager: Charles Crawford.
Mine Surveyor: L. C. Stevens.
Overman: Charles Crawford.
Fireboss: George Sharpe.
Thickness of Seam: 6 feet.
Thickness of Cover: 75ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, Sec. 6, Tp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: 5456.
Registered Trade Name: Back Beauty Coal.

Nimko Coal Mine—Mine No. 1560

Mine Office: South Edmonton, Alberta.
Mine Surveyor: L. C. Stevens.
Overman: K. Nimko.
Thickness of Seam: 5 feet.
Thickness of Cover: 140 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6ft. by 6ft. Depth of Slope: 150ft.
Location of Mine: L.S. 10, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 623.
Truck mine.
Registered Trade Name: White Mud Creek Coal.

Egg Lake Coal Co.—Mine No. 1582

Mine Office: Morinville, Alberta.
Mine Manager: T. Logan.
Mine Surveyor: David Jones.
Foreman: H. Paeppe.
Blaster: H. Paeppe.
Thickness of Seam: 6 feet.
Thickness of Cover: 16 to 20 feet.
Form of Opening: Strip mine.
Location of Mine: L.S. 13 and 14, Sec. 36, Tp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5600.
Truck mine.
Registered Trade Name: Egg Lake Coal.

J. B. Starky Co., Ltd.—Mine No. 1626

Authorized Capital: \$250,000.00
Name of President: J. B. Starky.
Names of Directors: J. B. Starky, E. A. Mills, H. O. Patriquin.
Name of Sec.-Treas.: E. A. Mills.
Head Office: 10631 92nd St., Edmonton, Alberta.
Mine Office: R.R. No. 2, St. Albert, Alta.
General Manager: J. B. Starky.
Mine Manager: W. T. Worthington Sr.
Mine Surveyor: W. T. Worthington Sr.
Overman: J. F. Brown.
Firebosses: H. Wales, F. Parobchuk, S. Kendrick, W. Worthington Jr.
Thickness of Seam: 10 feet.

Thickness of Cover: 75 feet.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8ft. by 12ft. Depth of Shaft: 75ft. Size of Slope: 7ft. by 7ft. Depth of Slope: 200ft.
Location of Mine: L.S. 4, Sec. 36, Tp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5537.
N.A.R. and Truck mine.
Registered Trade Name: Star-Key Coal.

Cardondale Collieries Ltd.—Mine No. 1627

Mine Office: Carbondale, Alberta.
General Manager: W. Dickinson.
Mine Surveyor: L. C. Stevens.
Overman: J. Kennedy.
Thickness of Seam: 5¾ft.
Thickness of Cover: 55ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: S.E. ¼, Sec. 17, Tp. 55, Rge. 24, W. 4th Mer.
Truck mine.
Registered Trade Name: Carbondale Coal.

Mike Sinoski & Partners—Mine No. 1628

Mine Office: Box 4024, South Edmonton, Alberta.
General Manager: Mike Sinoski.
Mine Surveyor: L. C. Stevens.
Overman: Steve Sinoski.
Thickness of Seam: 4ft.
Thickness of Cover: 140ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 8ft. by 8ft. Depth of Shaft: 110ft.
Location of Mine: L.S. 15, Sec. 23, Tp. 51, Rge. 25, West 4th Mer.
Coal Mining Lease Number: C.P.R. 578.
Truck mine.
Registered Trade Name: Blue Point Coal.

Beaver Hills Coal Mine—Mine No. 1632

Mine Office: Ardrossan, Alberta.
General Manager: C. F. MacLachlan.
Mine Surveyor: L. C. Stevens.
Foreman: M. Olson.
Thickness of Seam: 5ft.
Thickness of Cover: 24ft.
Location of Mine: N. ¼ L.S. 8 and 9, Sec. 2, Tp. 53, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5542.
Truck mine.
Registered Trade Name: Beaver Hills Coal.

Morinville Collieries Ltd.—Mine No. 1633

Authorized Capital: \$40,000.
Name of President: John Camarta.
Names of Directors: J. Camarta, W. Bennett, E. Radcliffe.
Name of Secretary: E. Radcliffe.
Name of Treasurer: W. Bennett.
Mine Office: Morinville, Alberta.
Mine Manager: John Camarta.
Mine Surveyor: L. C. Stevens.
Overman: Jim McDonald.
Fireboss: E. Radcliffe.
Thickness of Seam: 7 feet.
Thickness of Cover: 50ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7ft. by 7ft. Depth of Slope: 175ft.
Location of Mine: L.S. 1, Sec. 32, Tp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5565.
C.N.R., C.P.R., N.A.R. and Truck mine.
Registered Trade Name: Spitfire Coal.

J. B. St. Martin—Mine No. 1636

Mine Office: Legal, Alberta.
Mine Surveyor: L. C. Stevens.
Foreman: J. B. St. Martin.
Thickness of Seam: 4ft.
Thickness of Cover: 10ft.

Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 11 and 14, Sec. 26, Tp. 57, Rge. 25, W. 4th Mer.
Truck mine.
Registered Trade Name: Legal Coal.

A. Horkulak—Mine No. 1641

Mine Office: Box 4092, S. Edmonton, Alberta.
Mine Surveyor: L. C. Stevens.
Overman: A. H. Horkulak.
Thickness of Seam: 5 feet.
Thickness of Cover: 100 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope; Size of Slope: 7ft. by 7ft. Depth of Slope: 90ft.
Location of Mine: L.S. 9, 10, 15, 16, Sec. 26, Tp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5520.
Truck mine.
Registered Trade Name: Rabbit Hill Coal.

J. G. Mucha—Mine No. 1646

Authorized Capital: \$15,000.
Mine Office: Box 4027, South Edmonton, Alberta.
Mine Surveyor: L. C. Stevens.
Foreman: J. G. Mucha.
Thickness of Seam: 4 feet.
Thickness of Cover: 12ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 13, Sec. 25, Tp. 51, Rge. 25, West 4th Mer.
Coal Mining Lease Number: C.P.R. 622.
Truck mine.
Registered Trade Name: Bright Service Coal.

T. Opalinski—Mine No. 1658

Mine Office: Ellerslie, Alberta.
Mine Surveyor: L. C. Stevens.
Foreman: R. Klapstein.
Thickness of Seam: 2½ft.
Thickness of Cover: 15ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 11, Sec. 25, Tp. 51, Rge. 25, West 4th Mer.
Coal Mining Lease Number: C.P.R. 631.
Truck mine.
Registered Trade Name: Ellerslie Coal.

J. G. Mucha—Mine No. 1684

Authorized Capital: \$15,000.
Mine Office: Box 4027, S. Edmonton, Alberta.
Mine Surveyor: L. C. Stevens.
Foreman: J. G. Mucha.
Thickness of Seam: 2ft.
Thickness of Cover: 16ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 10, Sec. 25, Tp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 623.
Truck mine.
Registered Trade Name: Bright Service Coal.

GLEICHEN AREA

Blackfoot Indian Agency Coal Mine Mine No. 72a

Mine Office: Gleichen, Alberta.
Mine Manager: T. Marshall.
Mine Surveyor: A. G. Macaulay.
Thickness of Seam: 5ft.
Thickness of Cover: 150ft.
Inclination of Seam: Horizontal.
Form of Opening: Adit.
Location of Mine: South Bank of Bow River, 10 mile S.E. Cluny, Alberta.
Truck mine.

Karl Schnepf—Mine No. 299

Mine Office: Rosebud, Alberta.
Mine Surveyor: Gordon L. Kidd.
Overman: K. Schnepf.
Thickness of Seam: 3 feet.
Thickness of Cover: 55 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope; Size of Slope: 6ft. by 6ft. Depth of Slope: 160 feet.
Location of Mine: S. ½ L.S. 4 and 5, Sec. 29, Tp. 26, Rge. 21, West 4th Mer.
Coal Mining Lease Number: C.P.R. 474.
Truck mine.
Registered Trade Name: Bright Hard Coal.

H. Castella & Sons—Mine No. 1265

Mine Office: Standard, Alberta.
Mine Surveyor: D. Jones.
Overman: J. Castella.
Fireboss: M. A. Castella.
Thickness of Seam: 3ft. 10in.
Thickness of Cover: 80 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope; Size of Slope: 5ft. by 9ft. Depth of Slope: 110 feet.
Location of Mine: L.S. 5 and 12, Sec. 11, Tp. 25, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 394.
Truck mine.
Registered Trade Name: Standard Coal.

John Guiney—Mine No. 1431

Mine Office: Rosebud, Alberta.
Mine Surveyor: D. Jones.
Overman: J. Guiney.
Thickness of Seam: 3 feet.
Thickness of Cover: 90ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope; Size of Slope: 6ft. by 6ft. Depth of Slope: 30 feet.
Location of Mine: L.S. 3 and 6, Sec. 29, Tp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 591.
Truck mine.
Registered Trade Name: Consumer's Coal.

Wm. McMillan—Mine No. 1521

Mine Office: Rosebud, Alberta.
Mine Surveyor: David Jones.
Overman: Alex. McMillan.
Fireboss: C. E. Smith.
Thickness of Seam: 3½ feet.
Thickness of Cover: 1 to 100 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope; Size of Slope: 5ft. by 6ft. Depth of Slope: 140ft.
Location of Mine: L.S. 14, Sec. 20, Tp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 551.
Truck mine.
Registered Trade Name: Supreme of the Valley Coal.

HALCOURT AREA

Baldwin Collieries—Mine No. 651

Mine Office: Grande Prairie, Alberta.
Mine Surveyor: David Jones.
Overman: Ernest Cumber.
Thickness of Seam: 2½ft.
Thickness of Cover: 90 feet.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L. S. 15, Sec. 35, Tp. 70, Rge. 7, W. 6th Mer.
Coal Mining Lease Number: 2737, 5461.
Truck mine.
Registered Trade Name: Globe Coal.

Cage Brothers—Mine No. 1588

Mine Office: Halcourt, Alberta.
Mine Surveyor: David Jones.
Foreman: Jim Gage.
Thickness of Seam: 30 inches.

Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 14, Sec. 24, Tp. 70, Rge. 11, West 6th Mer.
Coal Mining Lease Number: 5424.
Truck mine.
Registered Trade Name: Hillside Coal.

HIGHWOOD AREA

Alberta Hard Coals Ltd.—Mine No. 1625
Mine Office: Turner Valley, Alberta.
Overman: Robert Kerr.
Fireboss: Albert Brooks.
Thickness of Seam: 10ft.
Location of Mine: N.E. ¼ Sec. 15, Tp. 19, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: C.S. 469.
Truck mine.
Registered Trade Name: Canthracite Coal.

Sheep River Coal Co.—Mine No. 1638
Authorized Capital: \$100,000.
Name of President: James E. Muir.
Names of Directors: James E. Muir, B. Hills, S. H. Morton, W. G. Brown.
Name of Sec.-Treas.: Basil Hills.
Head Office: 309 8th Ave. W., Calgary, Alberta.
Mine Office: Turner Valley Alberta.
General Manager: James E. Muir.
Mine Manager: W. G. Brown.
Thickness of Seam: 40ft.
Thickness of Cover: 10ft.
Form of Opening: Strip mine.
Location of Mine: L.S. 7 Sec. 24 Tp. 19, Rge. 6, W. 5th Mer.
Coal Mining Lease Numbers: 5546, 5589.
C.P.R. and Truck mine.
Registered Trade Name: Sheep River Coal.

LETHBRIDGE AREA

A. Razzolini—Mine No. 56
Mine Office: Magrath, Alberta.
Mine Surveyor: J. F. Hamilton.
Overman: Albert Razzolini.
Thickness of Seam: 3ft. 6in.
Thickness of Cover: 200 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5ft. by 6ft. Depth of Slope: 200ft.
Location of Mine: L.S. 3, Sec. 7, Tp. 7, Rge. 21, West 4th Mer.
Coal Mining Lease Number: Pat G. Russell.
Truck mine.
Registered Trade Name: Baker Coal.

J. A. S. Wukusich—Mine No. 738
Mine Office: 732 12th St. "C" North, Lethbridge, Alberta.
Mine Surveyor: J. F. Hamilton.
Overman: J. A. S. Wukusich.
Thickness of Seam: 2 feet.
Thickness of Cover: 30ft. to 200ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 4ft. by 4ft. Depth of Shaft: 40ft.
Location of Mine: L.S. 2 and 7, Sec. 11, Tp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5522.
Truck mine.
Registered Trade Name: Santa-Maria Coal.

S. Kocsis & S. Varga—Mine No. 1086
Mine Office: Riverview Apartment, Lethbridge, Alberta.
Mine Surveyor: J. F. Hamilton.
Overman: Steve Kocsis.
Thickness of Seam: 3ft.
Thickness of Cover: 20ft. to 155ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5ft. by 5ft.
Location of Mine: L.S. 5 and 12, Sec. 8, Tp. 7, Rge. 21, W. 4th Mer.

Coal Mining Lease Number: 137.
Truck mine.
Registered Trade Name: Steve's Coal.

Chester Mine—Mine No. 1095

Mine Office: Lethbridge, Alberta.
Mine Manager: D. J. Crabb.
Mine Surveyor: J. F. Hamilton.
Fireboss: J. Chemottl.
Thickness of Seam: 4ft.
Thickness of Cover: 300 feet.
Inclination of Seam: 2 degrees.
Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 254ft.
Location of Mine: N. ½ L.S. 8, Sec. 30, Tp. 9, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 660.
Truck and C.P.R. mine.
Registered Trade Name: Royal Coal.

Lethbridge Collieries, Ltd.—Mine No. 1263

Authorized Capital: \$1,400,000.
Name of President: L. Munroe.
Names of Directors: Leslie Munroe, E. A. Lovett, C. S. Donaldson, Wm. Toole, A. E. Whitmore.
Name of Secretary: C. T. Webb.
Name of Treasurer: R. V. Maynard.
Head Office: 137 9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
General Manager: J. M. Davidson.
Mine Manager: J. Brady.
Mine Surveyor: R. D. Livingstone.
Overman: F. Thackray.
Firebosses: S. A. Yorko, J. Guisto, A. Birse, J. Yakiwczuk, J. C. Macaulay.
Thickness of Seam: 5 feet.
Thickness of Cover: 263 feet.
Inclination of Seam: Dip 2 N. 56 degrees W.
Form of Opening: Shaft. Size of Shaft: 9ft. by 24ft. Depth of Shaft: 263 feet.
Location of Mine: L.S. 11, Sec. 30, Tp. 10, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Min. S. 983.
Mine located on C.P.R.
Registered Trade Name: Cadillac Coal.

Lethbridge Collieries, Ltd.—Mine No. 1464

Same particulars as for Mine No. 1263.
Mine Manager: A. G. Donaldson.
Mine Surveyor: R. D. Livingstone.
Overman: H. Tyrer.
Firebosses: J. Peta, G. Coutts, J. Stewart, A. McColl, R. Dobson, L. C. Ridgeway, D. Coutts.
Thickness of Seam: 4 feet.
Thickness of Cover: 400 feet.
Inclination of Seam: 1 in 75 N.8°W.
Form of Opening: Shaft. Size of Shaft: 11ft. by 19ft. Depth of Shaft: 359ft.
Location of Mine: L.S. 3, Sec. 2, Tp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 627-630.
Mine located on C.P.R.
Registered Trade Name: Galt Coal.

J. J. Hamilton Coal Co.—Mine No. 1581

Authorized Capital: \$22,000.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. J. Hamilton.
Mine Surveyor: J. F. Hamilton.
Overman: E. Tyrer.
Fireboss: D. Howell.
Thickness of Seam: 4ft. 3in.
Thickness of Cover: 475ft.
Inclination of Seam: 2.5°.
Form of Opening: Shaft. Size of Shaft: 9ft. by 8ft. Depth of Shaft: 235ft.
Location of Mine: L.S. 5, 6, 10, 12 and 15, Sec. 24, Tp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5870.
C.P.R. and Truck mine.
Registered Trade Name: Federal Coal.

Vulcan Mining & Construction Co. Ltd.—Mine No. 1602

Mine Office: Vulcan, Alberta.
Mine Manager: Homer F. Tudor.

Form of Opening: Strip mine.
Location of Mine: Sec. 7, Tp. 7, Rge. 21,
W. 4th Mer.
Coal Mining Lease Number: 5599.
Registered Trade Name: Vulcan Coal.

L. C. McClain & Le Ray Meldrum
Mine No. 1685

Mine Office: Magrath, Alberta.
General Manager: Le Ray Meldrum.
Mine Manager: L. C. McClain.
Thickness of Seam: 3ft.
Thickness of Cover: 8ft.
Form of Opening: Strip mine.
Location of Mine: Sec. 7, Tp. 7, Rge. 21,
W. 4th Mer.
Truck mine.
Registered Trade Name: M. & M. Coal.

MILK RIVER AREA

Edward Taylor—Mine No. 1301

Mine Office: Lucky Strike, Alberta.
Mine Surveyor: J. F. Hamilton.
Overman: Edward Taylor.
Thickness of Seam: 4ft.
Thickness of Cover: 86ft.
Form of Opening: Slope. Size of Slope:
6½ft. by 5½ft. Depth of Slope: 221ft.
Location of Mine: L.S. 7, 8, 9, 10, Sec.
10, Tp. 3, Rge. 11, W. 4th Mer.
Coal Mining Lease Number: 2832.
Truck mine.
Registered Trade Name: New Benwell
Coal.

MORLEY AREA

B. Ainsley & Sons—Mine No. 1619

Mine Office: Morley, Alberta.
Mine Manager: G. Ainsley.
Mine Surveyor: Gordon L. Kidd.
Overman: G. Ainsley.
Thickness of Seam: 6 feet.
Thickness of Cover: 75 feet.
Inclination of Seam: 25°S.W.
Form of Opening: Slope. Size of Slope:
7ft. by 7ft. Depth of Slope: 200 feet.
Location of Mine: Unsurveyed territory.
C.P.R. and Truck mine.
Coal Mining Lease Number: H.O. 5.
Registered Trade Name: Fire Cloud Coal.

MOUNTAIN PARK AREA

Mountain Park Coals, Ltd.—Mine No. 282

Authorized Capital: \$1,042,430.
Name of President: A. M. Mitchell.
Names of Directors: A. M. Mitchell, Col.
Sir H. P. Mitchell, J. C. George, Col.
M. E. Lindsay, Thomas Dickson, Alex.
C. Dunn, Mayne Reid, A. N. Scott.
Name of Sec.: Robt. M. Jenkinson.
Head Office: 410 Tegler Building, Ed-
monton, Alberta.
Mine Office: Mountain Park, Alberta.
General Manager: Fred Horne.
Mine Manager: D. C. Hamilton.
Mine Surveyor: D. McKinnon.
Overman: R. Mitchell.
Firebosses: S. Olesky, A. Stene, A.
Wright, A. Emblau, J. Brugos, H.
Roome, F. Norris.
Thickness of Seam: 28ft.
Thickness of Cover: 250 to 800 feet.
Inclination of Seam: 38 degrees.
Form of Opening: Slope and Open Pit.
Size of Slope: 8ft. by 10ft.
Location of Mine: Sec. 33, Tp. 45, Rge.
23, West 5th Mer.
Coal Mining Lease Number: 5043.
Mine located on C.N.R.
Registered Trade Name: Mountain Park
Coal.

Cadomin Coals, Ltd.—Mine No. 693
Authorized Capital: \$1,200,000.
Name of President: H. R. Milner.

Names of Directors: A. C. Emery, S. W.
Field, T. M. Burnett, Colin Campbell,
H. Riley Jr.
Name of Sec.Treasurer: Colin Campbell.
Head Office: 418 McLeod Bldg., Edmon-
ton, Alberta.
Mine Office: Cadomin, Alberta.
General Manager: D. B. Young.
Mine Manager: S. Douglas Jr.
Mine Surveyor: N. Melnyk.
Overmen: J. Roberts, R. Carr, J. Herman.
Firebosses: P. Nicholson, B. Chesney, S.
Wilson, W. Driega, J. Williamson, J.
James, W. Stene, H. McKenna, F.
Gosney.

Thickness of Seam: 33ft.
Thickness of Cover: 1ft. to 50ft.
Inclination of Seam: 60 degrees.
Form of Opening: Shaft and Slope. Size
of Shaft: 20ft. by 12ft. Depth of
Shaft: 826ft. Size of Slope: 10ft. by
10ft. Depth of Slope: 1200ft.
Location of Mine: L.S. 14, Sec. 31, Tp. 46,
Rge. 23, W. 5th Mer.
Coal Mining Lease Numbers: 5061, 5082.
Mine located on C.N.R.
Registered Trade Name: Rocky Mountain
Splint Coal.

Luscar Coals, Ltd.—Mine No. 905

Authorized Capital: \$650,000.
Name of President: A. M. Mitchell.
Names of Directors: M. Reid, A. N. Scott,
Alex Dunn, Thomas Dickson.
Name of Sec.-Treas.: R. Jenkinson.
Head Office: 410 Tegler Bldg., Edmon-
ton, Alberta.
Mine Office: Luscar, Alberta.
General Manager: Fred Horne.
Mine Manager: Howell Evans.
Mine Surveyor: A. Scott.
Overmen: William Thomas, John Kubin.
Firebosses: R. Davies, F. Brown, R.
Brown, S. Small, R. McLeod, T. Jones.
Thickness of Seam: 30 feet.
Thickness of Cover: 10ft. to 150ft.
Inclination of Seam: Up to 85 degrees.
Form of Opening: Slope and Drift. Size
of Slope: 11ft. by 8ft. Depth of Slope:
833 feet.
Location of Mine: L.S. 7, Sec. 23, Tp. 47,
Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5213.
Mine located on C.N.R.
Registered Trade Name: Luscar Coal.

**Gregg River Collieries Ltd.—
Mine No. 1392**

Authorized Capital: \$55,000.
Name of President: H. R. Milner.
Names of Directors: H. Riley Jr., S. W.
Field, T. M. Burnett, Colin Campbell,
A. C. Emery.
Name of Sec.-Treas.: Colin Campbell.
Head Office: Edmonton, Alberta.
Mine Office: Cadomin, Alberta.
General Manager: D. B. Young.
Mine Manager: J. Henderson.
Mine Surveyor: N. Melnyk.
Foreman: J. Henderson.
Blasters: W. Gosney, J. Denholm.
Thickness of Seam: 40ft.
Thickness of Cover: 25ft.
Inclination of Seam: 40 degrees.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8, Sec. 28, Tp. 47,
Rge. 24, West 5th Mer.
Mine located on C.N.R.
Registered Trade Name: Gregg River
Coal.

NORDEGG AREA

Brazeau Collieries, Ltd.—Mine No. 256

Authorized Capital: \$4,000,000.
Name of President: J. A. Boyd.
Names of Directors: J. A. Boyd, W. H.
Moore, H. S. Gausby, J. A. Kilpatrick,
G. R. Cottrelle.
Name of Sec.-Treas.: H. S. Gausby.

Head Office: 25 King St. W., Toronto 1.
 Mine Office: Nordegg, Alberta.
 General Manager: A. D. Sturrock.
 Mine Manager: D. Shanks.
 Mine Surveyor: P. H. Hodson.
 Overman: J. Touhey.
 Firebosses: J. China, G. Minue, S. Barton, J. Henderson, O. Edwards, A. Blasetti, R. Whyte, J. Hall.
 Thickness of Seam: 6ft.
 Thickness of Cover: 293ft.
 Inclination of Seam: 12 degrees.
 Form of Opening: Slope. Size of Slope: 13ft. by 12ft. Depth of Slope: 4000ft.
 Location of Mine: Tp. 40, Rge. 15, West 5th Mer.
 Coal Mining Lease Number: 5169.
 Mine located on C.N.R.
 Registered Trade Name: Brazeau Bituminous Steam Coal.

Brazeau Collieries, Ltd.—Mine No. 1585
 Same particulars as for Mine No. 256.
 Mine Manager: A. McMullen.
 Mine Surveyor: T. H. Hodson.
 Overman: A. McQueen.
 Firebosses: D. Duncan, J. White, John White, H. Williams.
 Thickness of Seam: 13ft.
 Thickness of Cover: 314ft.
 Inclination of Seam: 12 degrees.
 Form of Opening: Slope. Size of Slope: 6ft. by 12ft. Depth of Slope: 4000ft.
 Location of Mine: Tp. 40, Rge. 15, West 5th Mer.
 Coal Mining Lease Number: 5169.
 Mine located on C.N.R.
 Registered Trade Name: Brazeau Bituminous Steam Coal.

PEKISKO AREA

G. C. Davies—Mine No. 1516

Authorized Capital: \$15,000.
 Head Office: Priddis, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: G. C. Davies.
 Fireboss: T. Coulter.
 Thickness of Seam: 3ft. 4in.
 Thickness of Cover: 70ft.
 Inclination of Seam: 10 degrees.
 Form of Opening: Slope. Size of Slope: 6ft. by 7ft. Depth of Slope: 180ft.
 Location of Mine: L.S. 10, Sec. 4, Tp. 22, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: 5614.
 Truck mine.
 Registered Trade Name: O.V. Coal.

PEMBINA AREA

Alberta Coal Co. Ltd.—Mine No. 419

Name of President: Karl C. Collett.
 Names of Directors: Karl C. Collett, E. Connelly, E. W. Costello, C. N. Mawer.
 Name of Sec.-Treas.: E. Connelly.
 Head Office: 332 7th Ave. W., Calgary, Alberta.
 Mine Office: Wabamun, Alberta.
 General Manager: Karl C. Collett.
 Mine Manager: John Viyyurka.
 Mine Surveyor: David Jones.
 Thickness of Seam: 9½ft.
 Thickness of Cover: 30ft. to 60ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 16, Sec. 9, Tp. 53, Rge. 4, West 5th Mer.
 Coal Mining Lease Number: C.P.R. 572.
 Mine located on C.N.R.
 Registered Trade Name: Victory Coal.

Gainford Collieries Ltd.—Mine No. 1409

Mine Office: Gainford, Alberta.
 Mine Manager: V. Konschuk.
 Thickness of Seam: 9ft.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.

Location of Mine: S.E. ¼, Sec. 36, Tp. 53, Rge. 6, West of 5th Mer.
 Coal Mining Lease Number: 5099.
 Registered Trade Name: Gain-Heat Coal.

Pembina Collieries Ltd.—Mine No. 1495

Mine Office: Entwistle, Alberta.
 Mine Manager: G. Ostertag.
 Mine Surveyor: L. C. Stevens.
 Thickness of Seam: 4ft.
 Thickness of Cover: 24ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: N.W. ¼ of Sec. 34, Tp. 53, Rge. 7, West 5th Mer.
 Coal Mining Lease Number: 238.
 Truck mine.
 Registered Trade Name: Pembina Peerless Coal.

Swanson Collieries Ltd.—Mine No. 1592

Mine Office: Gainford, Alberta.
 Mine Surveyor: David Jones.
 Foreman: J. Swanson.
 Thickness of Seam: 20 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: E. ½, Sec. 30, Tp. 52, Rge. 4, W. 5th Mer.
 Coal Mining Lease Number: 5442.
 Truck mine.
 Registered Trade Name: Pembina Royal Coal.

Strawberry Creek Coal Co. Ltd.—Mine No. 1644

Authorized Capital: \$20,000.
 Name of President: Leslie G. Karsay.
 Names of Directors: L. G. Karsay, Leslie Liba, Louis Kazinsky.
 Name of Secretary: Wm. Fode.
 Name of Treasurer: Elaine Liba.
 Mine Office: Warburg, Alberta.
 Mine Manager: Frank Fodor.
 Mine Surveyor: David Jones.
 Thickness of Seam: 4 feet 6 ins.
 Thickness of Cover: 12 to 80 feet.
 Form of Opening: Strip mine.
 Location of Mine: S.W. ¼ Sec. 13, Tp. 49, Rge. 3, W. 5th Mer.
 C.P.R. and truck mine.
 Registered Trade Name: Strawberry Creek Coal.

Lothian Collieries Ltd.—Mine No. 1645

Authorized Capital: \$30,000.00.
 Name of President: A. N. Scott.
 Names of Directors: A. N. Scott, W. Foster, R. Spanach.
 Name of Sec.-Treas.: Geo. Finlay.
 Head Office: 308 Agency Bldg., Edmonton, Alberta.
 Mine Office: Wabamun, Alberta.
 Mine Manager: Wm. Foster.
 Mine Surveyor: Wm. Foster.
 Thickness of Seam: 15ft.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: Sec. 10 and 15, Tp. 53, Rge. 4, W. 5th Mer.
 Coal Mining Lease Number: C.P.R. 628, 5568.
 C.N.R. and Truck mine.
 Registered Trade Name: Blue Flame Coal.

J. Lidgett & L. Opheim—Mine No. 1657

Mine Office: Entwistle, Alberta.
 Mine Surveyor: L. C. Stevens.
 Overman: James Lidgett.
 Thickness of Seam: 4ft. 6in.
 Thickness of Cover: 100 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: S. ½ of L.S. 16 and 9, Sec. 10, Tp. 54, Rge. 7, West 5th Mer.
 Coal Mining Lease Number: 5619.
 Truck mine.
 Registered Trade Name: O. & L. Coal.

S. Pinter & Sons—Mine No. 1670

Authorized Capital: \$20,000.
 Mine Office: Warburg, Alberta.
 Foreman: J. Pinter.
 Thickness of Seam: 4ft.
 Thickness of Cover: 10ft. to 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 14, Sec. 13, Tp. 49, Rge. 3, W. 5th Mer.
 Coal Mining Lease Number: C.P.R. 656.
 Truck mine.
 Registered Trade Name: Pinter Coal.

Donvie Collieries Ltd.—Mine No. 1683

Mine Office: Seba Beach, Alberta.
 Mine Manager: T. Newell.
 Mine Surveyor: D. Jones.
 Foreman: Daniel W. Rosin.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 5, Sec. 33, Tp. 52, Rge. 5, W. 5th Mer.
 Coal Mining Lease Number: 5442.
 Truck mine.
 Registered Trade Name: Sunburst Coal.

James Sturms—Mine No. 1687

Mine Office: Genesee, Alberta.
 Form of Opening: Strip mine.
 Location of Mine: N.E. $\frac{1}{4}$ of 9, 10 and 16, Sec. 15, Tp. 50, Rge. 4, W. 5th Mer.
 This is a new mine—particulars not complete.

PINCHER AREA**R. Letcher & Sons—Mine No. 1440**

Mine Office: Lundbreck, Alberta.
 Mine Surveyor: L. M. Dwarkein.
 Overman: R. Letcher.
 Thickness of Seam: 8ft. to 10ft.
 Thickness of Cover: Outcrop.
 Inclination of Seam: 70°.
 Form of Opening: Slope. Size of Slope: 7ft. by 6ft. Depth of Slope: 95 feet.
 Location of Mine: L.S. 10, Sec. 26, Tp. 7, Rge. 2, W. 5th Mer.
 Coal Mining Lease: Freehold.
 Truck mine.
 Registered Trade Name: Letcher Coal.

PRAIRIE CREEK AREA**C. M. Woodley—Mine No. 1653**

Mine Office: Hinton, Alberta.
 General Manager: C. M. Woodley.
 Mine Surveyor: L. C. Stevens.
 Overman: Frank Kostenko.
 Thickness of Seam: 5ft.
 Thickness of Cover: 80ft.
 Inclination of Seam: Dips to N.E. 15 deg.
 Form of Opening: Slope. Size of Slope: 5ft. by 7ft. Depth of Slope: 280ft.
 Location of Mine: L.S. 4, Sec. 29, Tp. 50, Rge. 25, West 5th Mer.
 Coal Mining Lease Number: 5602.
 C.N.R. and Truck mine.
 Registered Trade Name: Red Glow Coal.

REDCLIFF AREA**Naco Coal Co.—Mine No. 772**

Mine Office: Medicine Hat, Alberta.
 General Manager: Peter McQueen.
 Mine Manager: C. R. Cooke.
 Mine Surveyor: J. F. Hamilton.
 Overman: C. R. Cooke.
 Fireboss: M. Valentini.
 Thickness of Seam: 4 feet.
 Thickness of Cover: 235ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit. Size of Slope: 6ft. by 8ft. Depth of Slope: 135ft.

Location of Mine: L.S. 2, Sec. 5, Tp. 13, Rge. 6, W. 4th Mer.
 Coal Mining Lease: C.P.R.
 C.P.R. and Truck mine.
 Registered Trade Name: Ajax coal.

ROCHESTER AREA**Marwood S. Alexander—Mine No. 1686**

Mine Office: Sub P.O. 18, Edmonton, Alberta.
 Foreman: Marwood S. Alexander.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 8, Sec. 11, Tp. 66, Rge. 24, W. 4th Mer.
 Registered Trade Name: Baptiste Coal.
 This is a new mine—particulars not complete.

SAUNDERS AREA**Bighorn & Saunders Creek Collieries, Ltd.—Mine No. 388**

Authorized Capital: \$300,000.
 Name of President: Raoul Green.
 Names of Directors: W. G. Pearson, L. P. Robert, W. Bird, Dean Harrington.
 Name of Sec.-Treasurer: A. R. Granger.
 Head Office: Blairmore, Alberta.
 Mine Office: Saunders, Alberta.
 Mine Manager: Owen Morgan.
 Mine Surveyor: Owen Morgan.
 Overman: L. C. Gladwin.
 Firebosses: R. Cowley, John Nelson, Carl Schon.
 Thickness of Seam: 4ft. 9in.
 Thickness of Cover: 300 feet.
 Inclination of Seam: 7°.
 Form of Opening: Slope. Size of Slope: 8ft. by 6ft. Depth of Slope: 2,200 ft.
 Location of Mine: Sec. 24, Tp. 40, Rge. 13, West 5th Mer.
 Coal Mining Lease Number: 5162.
 Mine located on C.N.R.
 Registered Trade Name: Bighorn and Saunders Creek Coal.

Alexo Coal Co., Ltd.—Mine No. 852

Authorized Capital: \$200,000.
 Name of President: E. F. Pullen.
 Names of Directors: E. F. Pullen, Frank Pullen, P. F. Pullen, G. S. Robertson, H. E. Hanning, C. C. Clark.
 Name of Sec.-Treas.: C. C. Clark.
 Head Office: Toronto, Ont.
 Mine Office: Alexo, Alberta.
 General Manager: G. S. Robertson.
 Mine Manager: R. Tennant.
 Mine Surveyor: P. F. Pullen.
 Overman: D. S. Williamson.
 Firebosses: P. Kelly, J. Wilkinson.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 250 feet.
 Inclination of Seam: 7 degrees.
 Form of Opening: Slope. Size of Slope: 8ft. by 12ft. Depth of Slope: 2800ft.
 Location of Mine: N.W. $\frac{1}{4}$ L.S. 9, Sec. 27, Tp. 40, Rge. 13, W. 5th Mer.
 Coal Mining Lease Number: 5310, 5485, 5661.
 Mine located on C.N.R.
 Registered Trade Name: Alexo Coal and Acorn Coal.

SHEERNESS AREA**Chinook Coal Co., Ltd.—Mine No. 443**

Authorized Capital: \$50,000.00.
 Name of President: Claude Gallinger.
 Names of Directors: Claude Gallinger, Mrs. Jean Gallinger, W. Gallinger, Mrs. R. L. Wood, R. L. Wood.
 Name of Sec.-Treasurer: R. L. Wood.
 Mine Office: Sheerness, Alberta.
 Mine Manager: R. L. Wood.
 Mine Surveyor: David Jones.

Foreman: F. J. Heaston.
 Thickness of Seam: 5 feet.
 Thickness of Cover: 18ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip pit.
 Location of Mine: L.S. 1, Sec. 12, Tp. 29,
 Rge. 13, W. 4th Mer.
 Coal Mining Lease Numbers: 2816, 5540.
 C.N.R. and Truck mine.
 Registered Trade Name: Sheerness
 Chinook Coal.

John Gaetz—Mine No. 1314

Mine Office: Hanna, Alberta.
 Foreman: John Gaetz.
 Mine Surveyor: David Jones.
 Thickness of Seam: 2½ feet.
 Thickness of Cover: 9ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 1, Sec. 6, Tp. 29,
 Rge. 14, West 4th Mer.
 Coal Mining Lease Number: 5591.
 Truck mine.
 Registered Trade Name: Cowan Coulee
 Coal.

T. G. Ironside & A. Glover— Mine No. 1398

Mine Office: Scapa, Alberta.
 Foreman: T. G. Ironside.
 Mine Surveyor: David Jones.
 Thickness of Seam: 3 feet.
 Thickness of Cover: 12ft.
 Inclination of Seam: 90 degrees.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 12, Sec. 5, Tp. 34,
 Rge. 13, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 468a.
 Registered Trade Name: Ironside Coal.

Fred Pahl—Mine No. 1401

Mine Office: Hanna, Alberta.
 Foreman: F. M. Pahl.
 Mine Surveyor: D. Jones.
 Thickness of Seam: 3ft.
 Thickness of Cover: 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: E. & W. ½ L.S. 7 and
 8, Sec. 30, Tp. 32, Rge. 13, W. 4th Mer.
 Coal Mining Lease Number: 5083.
 Registered Trade Name: Eureka Coal.

Sheerness Coal Co., Ltd.—Mine No. 1432

Authorized Capital: \$10,000.
 Name of President: Claude Gallinger.
 Names of Directors: C. Gallinger, Mrs.
 Jean Gallinger.
 Name of Sec.-Treasurer: R. L. Wood.
 Mine Office: Sheerness Alberta.
 Mine Manager: R. L. Wood.
 Mine Surveyor: David Jones.
 Foremen: H. Sward, Bert Bishop.
 Thickness of Seam: 4 to 5 feet.
 Thickness of Cover: 15 to 20ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 5, Sec. 19, Tp. 29,
 Rge. 12, W. 4th Mer.
 Coal Mining Lease Numbers: 5027, 5214,
 5135.
 C.N.R. and Truck mine.
 Registered Trade Name: Sheebo Coal.

John Masciangelo & Partners— Mine No. 1553

Mine Office: Delia, Alberta.
 Mine Surveyor: David Jones.
 Overman: John Maciangelo.
 Thickness of Seam: 3ft. 9in.
 Thickness of Cover: 20 to 70 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: L.S. 9, 10, 15, 16, Sec.
 21, Tp. 30, Rge. 17, W. 4th Mer.
 Coal Mining Lease Number: 5368.
 Registered Trade Name: Blossom Mine
 Coal.

Crystal Mine—Mine No. 1597

Mine Office: Hanna, Alberta.
 Mine Surveyor: D. Jones.
 Foreman: A. J. Bordula.
 Thickness of Seam: 5ft.
 Thickness of Cover: 16ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 16, Sec. 12, Tp.
 29, Rge. 13, West 4th Mer.
 Coal Mining Lease Number: 5289.
 Registered Trade Name: Crystal Coal.

SLAVE AREA

Rybert Pearson—Mine No. 1682

Mine Office: Canyon Creek, Alberta.
 Foreman: Rybert Pearson.
 Thickness of Seam: 5ft.
 Thickness of Cover: 15ft.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 8 and 9, Sec. 21,
 Tp. 73, Rge. 8, W. 5th Mer.
 Coal Mining Lease Number: 5705.
 Truck mine.
 Registered Trade Name: Noralta Coal.

TABER AREA

J. Annon & Popel—Mine No. 672

Mine Office: Winnifred, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Overman: W. Annon.
 Thickness of Seam: 4ft. 6in.
 Thickness of Cover: 179 feet.
 Inclination of Seam: Horizontal.
 Location of Mine: L.S. 3, Sec. 27, Tp. 12,
 Rge. 10, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 9,
 5353.
 Truck mine.
 Registered Trade Name: Leyland Coal.

D. McCracken & Goring—Mine No. 838

Mine Office: Aldersen, Alberta.
 Mine Manager: H. Westcott.
 Thickness of Seam: 5½ft.
 Form of Opening: Adit.
 Location of Mine: L.S. 7, Sec. 28, Tp. 12,
 Rge. 10, W. 4th Mer.
 Registered Trade Name: Sunny South
 Coal.

Continental Coal Corporation, Ltd. Mine No. 1334

Authorized Capital: \$2,000,000.
 Name of President: Victor W. Campbell.
 Names of Directors: Victor W. Campbell,
 Walter Schlosser, Warren Dubois.
 Name of Secretary: D. S. Williamson.
 Name of Treasurer: V. W. Campbell.
 Mine Office: Grassy Lake, Alberta.
 General Manager: Victor W. Campbell.
 Mine Manager: J. P. Neufeld.
 Mine Surveyor: J. F. Hamilton.
 Foreman: Engelbert Kambeidz.
 Thickness of Seam: 2 feet.
 Thickness of Cover: 21ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: L.S. 1, 7, 8, Sec. 26,
 Tp. 9, Rge. 13, W. 4th Mer.
 Coal Mining Lease Number: 5471.
 Truck mine.
 Registered Trade Name: Alburna Coal.

Oliver Coal Mine—Mine No. 1536

Mine Office: Taber, Alberta.
 Mine Surveyor: J. F. Hamilton.
 Overman: Evan Evans.
 Thickness of Seam: 4ft.
 Thickness of Cover: 100ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: L.S. 2, Sec. 18, Tp. 10,
 Rge. 16, W. 4th Mer.

Coal Mining Lease Number: M.S. 438, 462.
Registered Trade Name: Oliver Senior Coal.

Southalta Coal Co. Ltd.—Mine No. 1609
Authorized Capital: \$25,000.
Name of President: M. M. Macdonald.
Names of Directors: M. M. Macdonald, C. C. Cook.
Name of Sec.-Treas.: C. C. Cook.
Mine Office: Taber, Alberta.
General Manager: C. C. Cook.
Mine Manager: M. G. Rhynas.
Mine Surveyor: M. G. Rhynas.
Thickness of Seam: 3½ ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: Sec. 30, Tp. 10, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 5466.
C.P.R. and Truck mine.
Registered Trade Name: Southalta Coal.

TOFIELD AREA

Emil Skarin—Mine No. 215
Head Office: 11115 89 Ave., Edmonton, Alberta.
Mine Office: Dodds, Alberta.
Mine Manager: E. Skarin.
Mine Surveyor: David Jones.
Thickness of Seam: 6 ft.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 7, Sec. 14, Tp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5544.
Truck mine.
Registered Trade Name: North Star Coal.

Tofield Coal Co., Ltd.—Mine No. 252
Authorized Capital: \$100,000.
Name of President: Claude Gallinger.
Names of Directors: C. Gallinger, Mrs. Jean Gallinger.
Name of Sec.-Treas.: Wilber Gallinger.
Mine Office: Tofield, Alberta.
General Manager: Claude Gallinger.
Mine Manager: Norman E. Scott.
Mine Surveyor: David Jones.
Foreman: Rufus B. Wilson.
Blaster: Anton Johnson.
Thickness of Seam: 6 feet.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: N. ½ Sec. 26, Tp. 50, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: H.B.C. C.N.R. and Truck mine.
Registered Trade Name: Headlight Coal.

The Black Nugget Coal Co. Ltd.—Mine No. 1107
Authorized Capital: \$28,000.
Name of President: F. L. Irving.
Names of Directors: Charles M. Ellis, Donald F. Irving, F. L. Irving.
Name of Sec.-Treas.: S. H. Roe.
Head Office: 604-605 McLean Block, Calgary, Alberta.
Mine Office: Dodds, Alberta.
Mine Manager: F. L. Irving.
Mine Surveyor: David Jones.
Foreman: Frank Kinierski.
Thickness of Seam: 6 feet.
Thickness of Cover: 25 feet.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 15, Sec. 11, Tp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: S.L. 262
C.N.R. and Truck mine.
Registered Trade Name: Hi-Lo Coal.

Ryley Coal Company—Mine No. 1206
Authorized Capital: \$8,000.
Mine Office: Ryley, Alberta.
Mine Surveyor: David Jones.
Overman: M. Zaharchuk.
Thickness of Seam: 11 ft.
Thickness of Cover: 12 feet.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. Depth of Slope: 60 ft.
Location of Mine: L.S. 1 and 8, Sec. 8, Tp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 125.
Truck mine.
Registered Trade Name: Ryley Coal.

C. Binder—Mine No. 1624
Authorized Capital: \$10,000.
Mine Office: Ryley, Alberta.
Mine Surveyor: David Jones.
Overman: C. Binder.
Thickness of Seam: 9 ft. 9 in.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. by 7 ft. Depth of Slope: 80 ft.
Location of Mine: L.S. 5, Sec. 9, Tp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 613.
C.N.R. and Truck mine.
Registered Trade Name: Ryalta Coal.

WESTLOCK AREA

Thorhild Coal Co. Ltd.—Mine No. 1517
Mine Office: Thorhild, Alberta.
Mine Surveyor: David Jones.
Foreman: John Labicz.
Thickness of Seam: 6 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: N. & S. ½ L.S. 12 and 13, Sec. 12, Tp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5275.
Truck mine.
Registered Trade Name: Dandy Coal.

Picardville Coal Co.—Mine No. 1523
Mine Office: Picardville, Alberta.
Mine Surveyor: David Jones.
Foreman: A. J. Beardsley.
Thickness of Seam: 6 ft.
Thickness of Cover: 15 to 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: E. ½ L.S. 8, Sec. 35, Tp. 58, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: 5567.
Truck mine.
Registered Trade Name: Picardville Coal.

Tomlinson & Kaszuba—Mine No. 1562
Authorized Capital: \$30,000.
Name of President: Frank N. Tomlinson.
Name of Vice-President: Louis Kaszuba.
Name of Sec.-Treas.: Titus Dombroski.
Mine Office: Thorhild, Alberta.
Mine Surveyor: David Jones.
Foreman: Titus Dombroski.
Thickness of Seam: 5½ ft.
Thickness of Cover: 14 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip mine.
Location of Mine: L.S. 1, Sec. 11, Tp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: S.L. 526.
Truck mine.
Registered Trade Name: The North Point Coal.

WETASKIWIN AREA

Peter Gill—Mine No. 1534
Mine Office: Thorsby, Alberta.
Mine Surveyor: L. C. Stevens.
Overman: Joe Gill.

Fireboss: Pete Gill.
 Thickness of Seam: $5\frac{1}{2}$ ft.
 Thickness of Cover: 90ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Slope: Size of Slope:
 7ft. by 6ft. Depth of Slope: 1000ft.
 Location of Mine: L.S. 3 and 6, Sec. 3,
 Tp. 48, Rge. 27, W. 4th Mer.
 Coal Mining Lease Number: C.P.R. 533.
 Registered Trade Name: Canyon Creek
 Coal.

WHITECOURT AREA

R. R. Pritchard—Mine No. 1612

Mine Office: Blue Ridge, Alberta.
 Mine Surveyor: David Jones.
 Overman: R. F. Pritchard.
 Thickness of Seam: $3\frac{1}{2}$ ft.
 Thickness of Cover: 100 to 500ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Drift.
 Location of Mine: S. $\frac{1}{2}$ of L.S. 1, Sec. 31,
 Tp. 59, Rge. 10, W. 5th Mer.
 Coal Mining Lease Number: 5490.
 Truck mine.
 Registered Trade Name: Burnwell Coal.

Edward Hughes—Mine No. 1681

Mine Office: Mayerthorpe, Alberta.
 Overman: Edward Hughes.
 Thickness of Seam: 4ft.

Thickness of Cover: 600ft.
 Inclination of Seam: Horizontal.
 Form of Opening: Adit.
 Location of Mine: N. $\frac{1}{2}$ of L.S. 14 and 15,
 Sec. 35, Tp. 59, Rge. 9, W. 5th Mer.
 Coal Mining Lease Number: 5708.
 Registered Trade Name: Athabasca River
 Hard Coal.
 This is a new mine; particulars not complete.

NO AREA

Pinto Creek Collieries Ltd.— Mine No. 1616

Authorized Capital: \$100,000.
 Name of President: W. E. Doupe.
 Name of Directors: J. L. McCordick, W.
 E. Doupe.
 Name of Sec.-Treas.: V. Black.
 Mine Office: Wembley, Alberta.
 Mine Manager: W. E. Doupe.
 Thickness of Seam: 5ft.
 Thickness of Cover: 15 feet.
 Inclination of Seam: Horizontal.
 Form of Opening: Strip mine.
 Location of Mine: Unsurveyed territory.
 Tp. 68, Rge. 10, W. 6th Mer.
 Coal Mining Lease Number: 5598.
 Truck mine.
 Registered Trade Name: Pinto Creek
 Coal.

The following table gives particulars of mines which were in operation during the year 1948 in the Province:
LIST OF MINES

Mine No.	Operator	Address	Location LS.S.T.R.M.	Character of Coal	Date of Opening
Ardley Area					
255	R. R. Straub	Alix	S.W. ¹ / ₄	Sub-bituminous	1910
* 809	J. W. Sissons	Alix	3, 4, 5, 6, 15 & 16-33-38-23-4	Sub-bituminous	1919
969	Karl Schnepf	Delburne	14-10-38-22-4	Sub-bituminous	1921
*1018	A. Johnson	Ardley	3-17-38-23-4	Sub-bituminous	1922
1135	Carl Kupp	Delburne	4 & 5-7-38-23-4	Sub-bituminous	1924
*1488	Charles O. Russell	Alix	4 & 4-29-38-23-4	Sub-bituminous	1935
1586	Kehl & McGladrie	Neris	4-5-35-37-22-4	Sub-bituminous	1942
*1605	S. Munro & Son	Ardley	12-35-38-23-4	Sub-bituminous	1943
*1613	Wm. Bartel and A. Auvinne	Ardley	16-20-38-23-4	Sub-bituminous	1943
*1663	Wm. G. Martin	Delburne	16-22-37-22-4	Sub-bituminous	1947
*1672	D. L. Gordon	Warden	1 & 2-13-38-22-4	Sub-bituminous	1948
*1675	John Lyness	Delburne	13-8-38-23-4	Sub-bituminous	1948
Big Valley Area					
864	Big Valley Coal Company, Ltd.	Big Valley	16-26-35-20-4	Sub-bituminous	1920
1254	Robert Campkin	Lousana	16-12-36-22-4	Sub-bituminous	1927
*1661	Robert Campkin & Sons	Lousana	1-23-36-22-4	Sub-bituminous	1947
Brooks Area					
*1404	Birmwel Coal, Ltd.	Eyremore	Secs.	Sub-bituminous	1932
*1672	J. D. Vogel	Midlandvale	27, 34 & 35-17-17-4 7-2-14-13-4	Sub-bituminous	1948
Camrose Area					
* 241	Joe Proskow	Dinant	4-18-48-19-4	Sub-bituminous	1910
* 724	S. H. Burnstad	Ohaton	N & S. ¹ / ₂	Sub-bituminous	1917
1420	Red Flame Coal Co., Ltd.	Round Hill	3 & 6-14-48-18-4	Sub-bituminous	1933
*1524	Geo. Shute & Partners	Dinant	19-48-18-4	Sub-bituminous	1937
*1603	Alberta Coal Co., Ltd.	Camrose	8 & 9-7-48-19-4 2, 6, 7, 10-11-15-29-46-19-4	Sub-bituminous	1943
Carbon Area					
53	A. Fox (Kneehill Mine)	Carbon	S.W. ¹ / ₄	Sub-bituminous	1898
* 194	Kneehill Coal Co., Ltd.	Three Hills	N.E. ¹ / ₄	Sub-bituminous	1909
384	Inland Coal Co., Ltd.	Three Hills	3-14-29-23-4 4-31-22-4	Sub-bituminous	1913
690	J. W. Rynning	Rovley	16-26-3-24-4	Sub-bituminous	1917
710	East Trochu Coal Co.	Trochu	4-13-22-21-4	Sub-bituminous	1917
817	B. Pickering	Ghost Pine Creek	9, 10, 15 & 16-14-33-23-4	Sub-bituminous	1919
921	E. Reissig	Trochu	1 & 6-31-21-4	Sub-bituminous	1921
1060	East Carbon Coal Co.	Carbon	13-16-14-33-23-4 12-13-7-23-22-4	Sub-bituminous	1922

Champion Area		Champion	7-8-15-22-4 15-33-15-23-4 9-8-16-23-4	Sub-bituminous Sub-bituminous Sub-bituminous	1907 1937 1939
136	George Rhodes	Champion			
1509	P. Fontana & Sons	Champion			
1565	Mike Popovich	Champion			
Coalspur Area		Sterco	12-35-47-20-5	Bituminous	1918
* 769	Sterling Collieries, Ltd.	Foothills	15-24-47-20-5	Bituminous	1918
771	Lakeside Coals, Ltd.	Robb	12-14-49-21-5	Bituminous	1918
775	McLeod River Hard Coal Co.(1941), Ltd.	Mercoal	4-25-48-22-5	Bituminous	1920
846	Coal Valley Mining Co., Ltd.	Coal Valley	10-25-47-20-5	Bituminous	1922
*1002	Bryan Hard Coal Co., Ltd.	Robb	11-15-49-21-5	Bituminous	1924
1157					
Crowsnest Area		Bellevue	10-20-7-3-5	Bituminous	1903
87	West Canadian Collieries, Ltd.	Coleman	11-8-8-4-5	Bituminous	1903
** 88	International Coal & Coke Co., Ltd.	Bellevue	21-7-3-5	Bituminous	1907
** 133	Rillcrest Mohawk Collieries, Ltd.	Beaver Mines	2-12-7-3-5	Bituminous	1909
139	Beaver Mines Coal Co.	Coleman	2-17-8-4-5	Bituminous	1909
204	McGillivray Cr'k Coal & Coke Co., Ltd.	Blairmore	10-2-8-4-5	Bituminous	1913
** 396	West Canadian Collieries, Ltd.	Blairmore	15-31-6-3-5	Bituminous	1942
1584	West Canadian Collieries, Ltd.				
Drumheller Area		Rosedale	14-28-28-19-4	Sub-bituminous	1912
** 346	Rosedale Collieries, Ltd.	Drumheller	14-8-29-20-4	Sub-bituminous	1912
367	Midland Coal Mining Co., Ltd.	Drumheller	5-18-29-20-4	Sub-bituminous	1913
402	Red Deer Valley Coal Co., Ltd.	Drumheller	7-28-23-19-4	Sub-bituminous	1914
422	Commander Coal Company	Aerial	3-29-20-4	Sub-bituminous	1915
436	Rosedale Collieries, Ltd.	Drumheller	13-32-27-18-4	Sub-bituminous	1918
620	Newcastle Collieries, Ltd.	Drumheller	14-10-29-20-4	Sub-bituminous	1927
728	Maple Leaf Coal Co., Ltd.	Drumheller	32-27-18-4	Sub-bituminous	1929
1258	Brilliant Coal Co.	East Coulee	12-14-29-20-4	Sub-bituminous	1933
1299	Sask. Federated Co-ops, Ltd.	Drumheller	13-20-28-19-4	Sub-bituminous	1935
1421	Hy-Grade Coal Mining Co., Ltd.	Drumheller	13-21-27-18-4	Sub-bituminous	1936
1436	Royalty Coal Mining Co.	Wayne	29-27-18-4	Sub-bituminous	1937
1484	Regal Coal Co., Ltd.	Drumheller	1-22-28-19-4	Sub-bituminous	1937
1491	Murray Collieries, Ltd.	Cambria P.O.	1-22-28-18-4	Sub-bituminous	1937
1493	Western Gem & Jewel Collieries, Ltd.	Wayne	10, 11, 14 & 15-22-28-18-4	Sub-bituminous	1937
1511	Aetha Coal Company	Willow Creek	3, 6 & 11-14-29-20-4	Sub-bituminous	1937
1515	P. Holt & H. Shoults	Drumheller	8-7-28-19-4	Sub-bituminous	1938
1520	The Minute Coal Company	Wayne	1-20-27-18-4	Sub-bituminous	1940
1544	Wayne Co-op., Ltd.	Wayne	10-23-28-18-4	Sub-bituminous	1942
1570	Sovereign Coal Co., Ltd.	Drumheller	7, 8, 9, 16-7-28-18-4	Sub-bituminous	1943
1573	Monarch Coal Mining Co., Ltd.	Della			
1583	John Hamilton	Willow Creek			
1589	Arcadia Coal Mines, Ltd.				

651	Baldwin Collieries, Ltd.	Grande Prairie	15-35-70- 7-6	Bituminous	1916
*1588	Cage Brothers	Halcourt	14-24-70-11-6	Bituminous	1942
*1633	Wm. Fraser	Halcourt	8-21-70-10-6	Bituminous	1945
1647	R. O. Johnston & Sons	Grande Prairie	Unsurveyed territory	Bituminous	1948
*1651	C. D. Grubb	Hualien	1-18-70- 9-6	Bituminous	1948
Highwood Area					
1625	Alberta Hard Coals, Ltd.	Turner Valley	15-19- 7-5	Bituminous	1945
*1638	Sheep River Coal Co.	Turner Valley	7-24-19- 6-5	Bituminous	1945
Lethbridge Area					
56	A. Razzolini	Magrath	3- 7- 7-21-4	Bituminous	1902
738	J. A. S. Wukusich	Lethbridge	2 & 7-11- 8-22-4	Bituminous	1909
1086	Steve Koesis & Steve Varga	Lethbridge	5 & 12- 8- 7-21-4	Bituminous	1923
1095	J. C. Chester	Lethbridge	8-30- 9-21-4	Bituminous	1923
1263	Lethbridge Collieries, Ltd.	Shaughnessy	11-30-10-21-4	Bituminous	1927
1464	Lethbridge Collieries, Ltd.	Lethbridge	3- 2- 9-22-4	Bituminous	1934
1581	J. J. Hamilton Coal Co., Ltd.	Lethbridge	5, 6, 10, 12' & 15-24- 9-22-4	Bituminous	1941
1602	Vulcan Mining & Construc. Co., Ltd.	Vulcan	7- 7-21-4	Bituminous	1946
1685	L. C. McLain & Le Ray Meldrum	Magrath	7- 7-21-4	Bituminous	1948
Milk River Area					
1301	Thos. Taylor	Lucky Strike	7, 8, 9 & 10-10-3-11-4	Sub-bituminous	1929
*1380	Lucky Strike Coal Co., Ltd.	Mashasin	10-27- 2-12-4	Sub-bituminous	1931
*1659	F. W. Duggan	Milk River	4- 7- 3-11-4	Sub-bituminous	1947
Morley Area					
1619	B. Ainsley	Morley	Unsurveyed territory	Bituminous	1944
Mountain Park Area					
** 282	Mountain Park Coals, Ltd.	Mountain Park	33-45-23-5	Bituminous	1911
** 693	Cadomin Coal Co., Ltd.	Cadomin	14-31-46-23-5	Bituminous	1917
** 965	Luscar Coals, Ltd.	Luscar	7-23-47-24-5	Bituminous	1921
*1392	Gregg River Collieries, Ltd.	Gregg River	8-28-47-24-5	Bituminous	1932
1617	Luscar Coals, Ltd.	Luscar	27-47-24-5	Bituminous	1943
1631	Arctic Coals, Ltd.	Cadomin	6-36-47-24-5	Bituminous	1945
Nordegg Area					
** 256	Brazeau Collieries, Ltd.	Nordegg	40-15-5	Bituminous	1910
Pakowski Area					
1318	W. Raeder	Elkwater	10-23- 8- 3-4	Sub-bituminous	1929

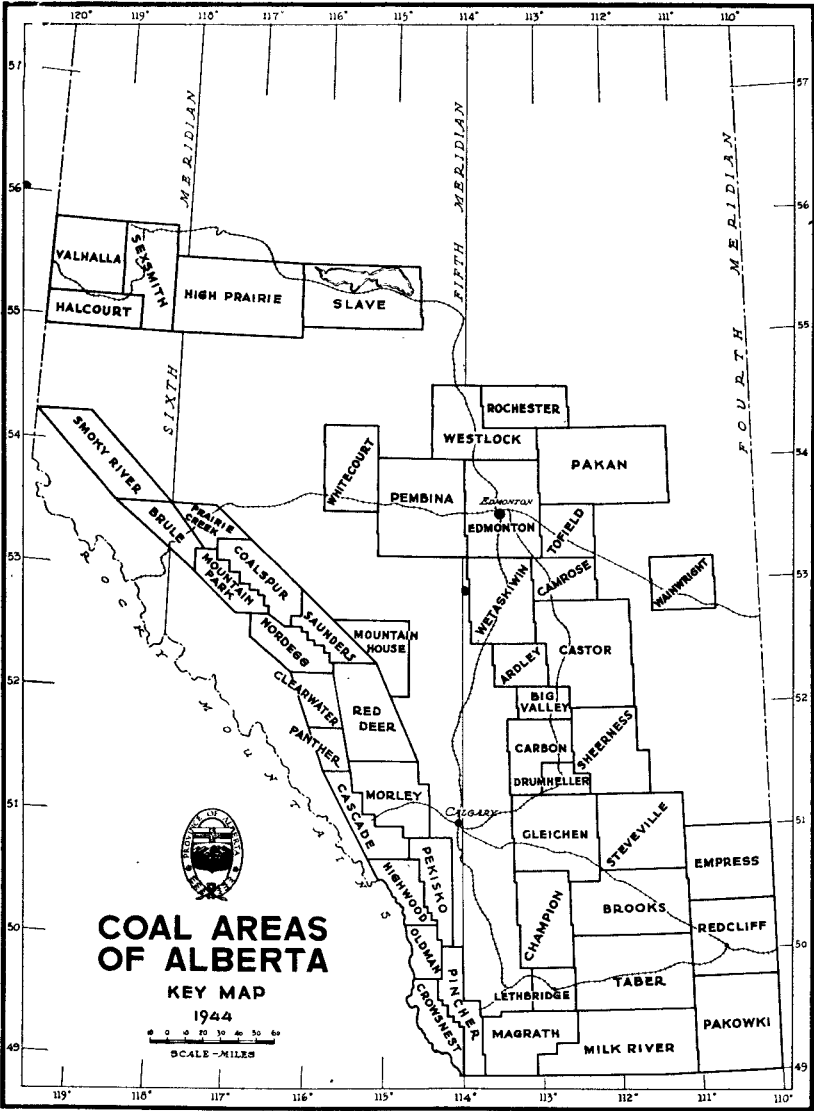
LIST OF MINES—Continued

Mine No.	Operator	Address	Location L.S.S.T.R.M.	Character of Coal	Date of Opening
1516	G. C. Davies	Priddis	10- 4-22- 3-5	Bituminous	1937
419	Alberta Coal Co., Ltd.	Wabamun	16- 9-53- 4-5	Sub-bituminous	1913
1409	Gainford Collieries, Ltd.	Gainford	36-53- 6-5	Sub-bituminous	1932
*1495	Pembina Collieries, Ltd.	Entwistle	34-53- 7-5	Sub-bituminous	1936
*1592	Swanson Collieries, Ltd.	Gainford	30-52- 4-5	Sub-bituminous	1943
1596	Wm Robinson	Entwistle	5-34-53- 7-5	Sub-bituminous	1944
1630	Lake Isle Mine	Gainford	31-53- 5-5	Sub-bituminous	1945
1644	Strawberry Creek Coal Co., Ltd.	Warburg	6-11-13-49- 3-5	Sub-bituminous	1946
*1645	Lothian Collieries	Wabamun	10 & 15-53- 4-5	Sub-bituminous	1946
1652	N. Fry & T. Larson	Seba Beach	16-25-53- 6-5	Sub-bituminous	1946
1657	J. Lidgett & L. Opheim	Entwistle	16-10-54- 7-5	Sub-bituminous	1947
*1670	S. Pinfer & Sons	Warburg	14-13-49- 3-5	Sub-bituminous	1948
1683	Donvie Collieries, Ltd.	Edmonton	5-33-52- 5-5	Sub-bituminous	1948
1687	James Sturms	Genesee	9. 10. 16-15-50- 4-5	Sub-bituminous	1948
1440	R. Letcher & Sons	Lundbreck	10-26- 7- 2-5	Bituminous	1933
1653	C. M. Woodley	Hinton	4-29-50-25-5	Bituminous	1946
772	Naco Coal Co., Ltd.	Medicine Hat	2- 5-13- 6-4	Sub-bituminous	1918
1686	Marwood S. Alexander	Edmonton	8-11-66-24-4	Sub-bituminous	1948
388	Bighorn & Saunders Creek Coll., Ltd.	Saunders	N. & S. $\frac{1}{2}$ 8 and 9-24-10-13-5	Bituminous	1913
852	Alexo Coal Co., Ltd.	Alexo	N.W. $\frac{1}{4}$ 9-27-40-13-5	Bituminous	1920

Sheerness Area		Sheerness	S.W. ¹ / ₄	E. & W. ¹ / ₂	Sub-bituminous	1914 1915 1929 1932 1933 1939 1943
* 443	Chinook Coal Co., Ltd.	Sheerness		1-12-29-13-4	Sub-bituminous	1914
486	Litke Brothers	Hanna		6-29-32-13-4	Sub-bituminous	1915
*1314	J. Gaetz	Hanna		1- 6-29-14-4	Sub-bituminous	1929
*1398	T. G. Ironside & A. Glover	Scapa		12- 5-34-13-4	Sub-bituminous	1932
*1401	F. H. Pahl	Hanna		8-30-32-13-4	Sub-bituminous	1932
*1432	Sheerness Coal Co., Ltd.	Sheerness		5-19-29-12-4	Sub-bituminous	1933
1553	John Masclangelo & Partners	Delia	9, 10, 15	16-21-30-17-4	Sub-bituminous	1939
*1597	Crystal Mine	Hanna		16-12-29-13-4	Sub-bituminous	1943
Slave Area						
*1682	Rybert Pearson	Canyon Creek		8 & 9-21-73- 8-5	Sub-bituminous	1948
Tofield Area						
672	J. Annon & Popel	Winnifred		3-27-12-10-4	Sub-bituminous	1916
838	D. McCracken & Goring	Alderson		7-28-12-10-4	Sub-bituminous	1919
*1334	Continental Coal Corporation	Grassy Lake	1, 7	8-26- 9-13-4	Sub-bituminous	1930
1536	Oliver Coal Mine	Taber		2-18-10-16-4	Sub-bituminous	1938
*1604	Southern Alberta Coal Co. Ltd.	Taber		12-10-17-4	Sub-bituminous	1943
*1609	Southalta Coal Co., Ltd.	Taber		30-10-16-4	Sub-bituminous	1943
Westlock Area						
* 215	Emil Skarin	Edmonton		7-14-49-18-4	Sub-bituminous	1909
* 252	Tofield Coal Co., Ltd.	Tofield	N. ¹ / ₂	26-50-19-4	Sub-bituminous	1910
*1107	Black Nugget Coal Co., Ltd.	Dodds		15-11-49-18-4	Sub-bituminous	1923
1206	Ryley Coal Company, Ltd.	Ryley	1	8- 8-49-17-4	Sub-bituminous	1925
1624	C. Binder	Ryley		5- 9-49-17-4	Sub-bituminous	1944
Westlock Area						
*1517	Thorhild Coal Co., Ltd.	Thorhild	N. & S. ¹ / ₂	12 & 13-12-60-21-4	Sub-bituminous	1937
*1523	Picardville Coal Co., Ltd.	Picardville	E. ¹ / ₂	8-35-58-27-4	Sub-bituminous	1945
*1562	Tomlinson & Kaszuba	Thorhild		1-11-60-21-4	Sub-bituminous	1939
1534	Peter Gill	Thorsby		3 & 6- 3-48-27-4	Sub-bituminous	1938
Whitcourt Area						
*1569	Alex Watson	Blue Ridge	Part of	12 & 13-19-59-10-5	Sub-bituminous	1940
1612	R. R. Pritchard	Blue Ridge	S. ¹ / ₂ of	1-31-59-10-5	Sub-bituminous	1943
1681	Edward Hughes	Mayerthorpe	N. ¹ / ₂ of	14 & 15-35-59- 9-5	Sub-bituminous	1948
No Area						
*1616	Pinto Creek Collieries, Ltd.	Wembley	Unsurveyed Territory	68-10-6	Bituminous	1943

* Strip Mine.

** Strip and Underground Mine.



INDEX

Page

A

Accidents, fatal, above ground	34
fatal, below ground	34
serious, above ground	34
serious, below ground	34
slight, above ground	34
slight, below ground	34
total number from 1906 to 1948 (inclusive)	103
total number in each field for 1948	104
classified according to outputs	107
tons extracted according to mines producing, per	106
tons produced in bituminous coal field by districts	106
tons produced in sub-bituminous coal field by districts	106
comparison per 1,000,000 tons produced and per 1,000 men em-	
ployed, 1915-1948 (inclusive)	105
description of each fatal	108
by months	109
tabulated list of total	109
tabulated and classified according to districts	110
classified in bituminous fields according to cause	111-112
classified in sub-bituminous fields according to cause	113-114
classified according to mines in bituminous field	115
classified according to mines in sub-bituminous field	116
Alberta, annual production of coal and value of same, 1886 to 1947 (in-	
clusive) (Dominion Bureau of Statistics)	25
total importation bituminous coal, 1919 to 1918 (inclusive)	
(Dominion Bureau of Statistics)	29
total importation of anthracite coal, 1919 to 1948 (inclusive)	
(Dominion Bureau of Statistics)	30-31
mineral production, 1946 and 1947 (Dominion Bureau of	
Statistics)	34
bricks, total used from shale mines	35
hollow tile made	35
total sales of briquettes for consumption in	38
bituminous coal sold for consumption as mine-run, in	48
bituminous coal sold for consumption as lump, in	48
bituminous coal sold for consumption as nut, in	49
bituminous coal sold for consumption as prepared stoker, in	49
bituminous coal sold for consumption as nut-slack, in	50
bituminous coal sold for consumption as slack, in	50
sub-bituminous coal sold for consumption as mine-run, in	51
sub-bituminous coal sold for consumption as lump, in	52
sub-bituminous coal sold for consumption as nut, in	52
sub-bituminous coal sold for consumption as prepared stoker, in	53
sub-bituminous coal sold for consumption as nut-slack in	53
sub-bituminous coal sold for consumption as slack, in	54
Annual production, Alberta, 1905 to 1948 (inclusive)	35
North-West Territories (Alberta and Saskatchewan),	
1901 to 1904 (inclusive)	35
Annual consumption of Canadian coal, 1902 to 1947 (inclusive) (D.B. of S.)	26, 27
of imported coal, 1902 to 1947 (inclusive) (D.B. of S.)	26, 27
coal importation, 1919 to 1948 (inclusive) (D.B. of S.)	29-31
coal importation, monthly, 1948 (D.B. of S.)	32-33

B

Bituminous coal, importations, 1919 to 1948 (inclusive) (D.B. of S.)	29
monthly importations, 1948 (D.B. of S.)	32
production by districts from 1944-1948 (inclusive)	45
coal, disposition of total output by districts	39
coal, disposition of total output by months	41
total production by months during 1948	46
total output of coal by districts during 1948	46
total output of coal by districts during each month	46
total amount of coal sold by months to railroad companies	47
mine-run coal for consumption in Alberta	48
lump coal for consumption in Alberta	48
nut coal for consumption in Alberta	49
prepared stoker coal for consumption in Alberta	49
nut-slack coal for consumption in Alberta	50
slack coal for consumption in Alberta	50
mine-run coal for consumption in Saskatchewan	54
lump coal for consumption in Saskatchewan	55
nut coal for consumption in Saskatchewan	55
prepared stoker coal for consumption in Saskatchewan	55
nut-slack coal for consumption in Saskatchewan	56
slack coal for consumption in Saskatchewan	56
mine-run coal for consumption in British Columbia	59
lump coal for consumption in British Columbia	59
nut coal for consumption in British Columbia	60
prepared stoker coal for consumption in British Columbia	60
nut-slack coal for consumption in British Columbia	60
slack coal for consumption in British Columbia	61
mine-run coal for consumption in Manitoba	63
lump coal for consumption in Manitoba	64
nut coal for consumption in Manitoba	64
prepared stoker coal for consumption in Manitoba	64
nut-slack coal for consumption in Manitoba	65
slack coal for consumption in Manitoba	65
mine-run coal for consumption in Ontario	68
lump coal for consumption in Ontario	68

INDEX—Continued

	Page
nut coal for consumption in Ontario	68
prepared stoker coal for consumption in Ontario	69
nut-slack coal for consumption in Ontario	69
slack coal for consumption in Ontario	69
coal sold for consumption in Japan	71
coal sold for consumption in Quebec	71
mine-run coal for consumption in United States	71
lump coal for consumption in United States	72
nut coal for consumption in United States	72
prepared stoker coal for consumption in United States	72
nut-slack coal for consumption in United States	72
slack coal for consumption in United States	73
coal used under colliery boilers	74
coal used by colliery railroads	74
coal used making coke	75
coal used making briquettes	75
coal put to stock	75
coal put on waste heap	76
coal lifted from stock	77
coal lifted from waste	78
number of mines classified according to output	79
Bituminous mines, number of men employed at Dec. 31st, 1948	80
number of men employed by districts classified as to occupations	80
total men employed each month by areas	82
per capita production for years 1910-1944 (inclusive)	85
per capita production by districts during 1948	88
number of days worked each month by districts	90
total shifts worked each month by districts	92-93
quantity of timber used by districts during 1948	96
particulars as to lamps used in	97
quantity of explosives used in coal	97
tons of coal produced per pound of explosives used	98
shots fired in coal in	99
miss-fires in blasting coal in	101
tons produced per accident in	106
accidents classified according to cause in	111-112
accidents classified according to mines in	115
Blasters certificates issued in 1948	124
Board of Examiners, report of	120
Bricks, output of shale used making	35
Bricks, total number sold	35
Bricks sold for use in Alberta, Saskatchewan, B.C., Manitoba and Ontario	35
Briquettes, disposition of total output, 1948	38
British Columbia, importation bituminous coal, 1919 to 1948 (inclusive)	29
monthly importation bituminous coal, 1948	32
monthly importation anthracite coal, 1948	32
bricks shipped from shale mines to	35
bituminous lump coal for consumption in	59
bituminous mine-run coal for consumption in	59
bituminous nut coal for consumption in	60
bituminous prepared stoker coal for consumption in	60
bituminous nut-slack coal for consumption in	60
bituminous slack coal for consumption in	61
sub-bituminous mine-run coal for consumption in	61
sub-bituminous lump coal for consumption in	61
sub-bituminous nut coal for consumption in	62
sub-bituminous prepared stoker coal for consumption in	62
sub-bituminous nut-slack coal for consumption in	63
sub-bituminous slack coal for consumption in	63
C	
Canada, total monthly importation bituminous coal, 1948 (D.B. of S.)	32
total monthly importation anthracite coal, 1948 (D.B. of S.)	32
total importation of bituminous coal, 1919-1948 (D.B. of S.)	29
Certificates issued during 1948, first class	34
issued during 1948, second class	34
issued during 1948, third class	34
issued during 1948, mine surveyors'	34
issued during 1948, mine electricians'	34
issued during 1948, strip mine managers'	34
issued during 1948, strip mine foremen's	34
issued during 1948, strip mine blasters'	34
list of first class certificates issued, 1948	120
list of second class certificates issued, 1948	120
list of third class certificates issued, 1948	120-121
list of mine surveyor certificates issued, 1948	121
list of mine electricians' certificates issued, 1948	121
list of strip mine managers' certificates issued, 1948	122-123
list of strip mine foremen's certificates issued, 1948	123-124
list of strip mine blasters' certificates issued, 1948	124
list of first class certificates issued to Dec. 31, 1948	124-128
list of second class certificates issued to Dec. 31, 1948	128-135
list of third class certificates issued to Dec. 31, 1948	135-155
list of mine surveyors' certificates issued to Dec. 31, 1948	156-158
list of first class mine electricians' certificates issued to Dec. 31, 1948	158-160
list of second class mine electricians' certificates issued to Dec. 31, 1948	160
number of provisionals issued, 1948	34
Chief Inspector, annual report of	5-24

INDEX—Continued

	Page
Classification of output, 1901 to 1948	36-37
Coal, annual production and value, 1886 to 1947	25
total production in 1948	34
mines, number in operation	34, 119
number opened	34, 119
number re-opened	34, 119
number closed	34, 119
number abandoned	34, 119
number in operation at December 31st, 1948	34, 119
comparison of outputs by districts	45
disposition of total output, 1948	38
bituminous, disposition of total output by districts	39
bituminous, disposition of total output by months	46
sub-bituminous, disposition of total output by districts	40
sub-bituminous, disposition of total output by months	47
bituminous, used making briquettes by months	75
bituminous, used making coke by months	75
sales by provinces from 1915 to 1948	44
total production of each class by months during 1948	46-47
total shipments to each province, 1948	38
tonnage produced per pound of explosive used by districts in each field	98
produced per electrical horse-power used	102
cutting machinery tonnage produced by	102
Coal Areas, map of	208
Coke, disposition, 1948	38
Colliery Boilers, total coal used under	5, 38, 41
bituminous coal used under	38, 39, 74
sub-bituminous coal used under	38, 40, 74
Compressed air machines and tonnage produced by	102
D	
Days worked each month by districts, bituminous field	90
each month by districts, sub-bituminous field	91
Description of mines, by areas	179-200
Districts, names and numbers of inspectors	119
E	
Electricians' certificates issued in 1948	121
Electric Lamps, Edison type	97
Wheat type	97
Wolfe Flame type	97
Koehler type	97
Electricity, number of mines using	102
number of machines operating and tonnage produced by	102
tons produced per electrical horse-power	102
amount of purchased power used	34
Employees, average number above ground	34
average number below ground	34
Examination Questions	161-174
Examinations, results of	120
Explosives, blasting coal, bituminous coal field	97
blasting coal, sub-bituminous coal field	97
quantity used blasting rock	100
F	
Fatal accidents, above ground	34
below ground	34
Farmers' Domestic Coal Permits, output	35
First Class Certificates issued in 1948	120
Foremen's Certificates issued in 1948	123-124
Fort Frances, importation bituminous coal, 1919 to 1948 (inclusive)	29
Fort William, importation bituminous coal, 1919 to 1948 (inclusive)	29
I	
Introduction	5-24
Importations, anthracite, 1919 to 1948 (inclusive)	30
bituminous coal, 1919 to 1948 (inclusive)	29
monthly, bituminous coal, 1948	32
monthly, anthracite coal, 1948	32
total, 1948	33
coke, 1946 to 1948 (inclusive)	28
Imported coal, annual consumption of	26-27
Inspectors, names of and districts	119
L	
Lamps, number of Edison Cap Type	97
number of Wheat Cap electric type	97
number of Wolfe Flame Cap electric type	97
number of Koehler Flame type	97
List of mines	201-207
M	
Manitoba, importation of bituminous coal	29
monthly importation of bituminous coal, 1948	32
monthly importation of anthracite coal, 1948	32
bricks shipped from shale mines to	35
hollow tile made	39
total amount of bituminous coal sold for consumption in	39
total amount of sub-bituminous coal sold for consumption in	40

INDEX—Continued

	Page
bituminous coal, mine-run, for consumption in	63
bituminous coal, lump, for consumption in	64
bituminous coal, nut, for consumption in	64
bituminous coal, prepared stoker, for consumption in	64
bituminous coal, nut-slack, for consumption in	65
bituminous coal, slack, for consumption in	65
sub-bituminous coal, mine-run, for consumption in	65
sub-bituminous coal, lump, for consumption in	66
sub-bituminous coal, nut, for consumption in	66
sub-bituminous coal, prepared stoker, for consumption in	67
sub-bituminous coal, nut-slack, for consumption in	67
sub-bituminous coal, slack, for consumption in	67
Men, average number employed above ground	34
average number employed below ground	34
employed at shale mines	35
total number employed at December 31st, 1948, in each field	80-81
employed bituminous field classified according to occupation and districts	80
employed sub-bituminous field classified according to occupation and districts	81
accidents, per 1,000 men employed	105
total employed bituminous field each month by districts	82
total employed sub-bituminous field each month by districts	83
Mineral production of Alberta, 1946-1947	34
Mine air samples	6
Mine Surveyors' Certificates issued in 1948	121
Mines, number classified according to output	79
number in operation	5, 34, 119
number opened	5, 34, 119
number re-opened	5, 34, 119
number abandoned	5, 34, 119
number of shale pits in operation	34
N	
Number of men employed above ground (average)	34
below ground (average)	34
O	
Officials, number prosecuted	117, 118
Ontario, total importations bituminous coal, 1919 to 1948 (inclusive)	29
total importations central, 1919 to 1948 (inclusive)	29
monthly importation bituminous coal, 1948	32
monthly importation anthracite, 1948	32
total and central importation, 1948	33
consumption in	39
total amount of bituminous coal sold during each month for consumption in	40
total amount of sub-bituminous coal sold during each month for consumption in	68
bituminous coal sold for consumption as mine-run in	68
bituminous coal sold for consumption as lump in	68
bituminous coal sold for consumption as nut in	68
bituminous coal sold for consumption as prepared stoker in	69
bituminous coal sold for consumption as nut-slack in	69
bituminous coal sold for consumption as slack in	69
sub-bituminous coal for consumption as mine-run in	69
sub-bituminous coal sold for consumption as lump in	70
sub-bituminous coal sold for consumption as nut in	70
sub-bituminous coal sold for consumption as prepared stoker in	70
sub-bituminous coal sold for consumption as nut-slack in	71
sub-bituminous coal sold for consumption as slack in	71
Output, North-West Territories (Alberta and Saskatchewan), 1901 to 1948 (inclusive)	35
classification of, 1901 to 1948 (inclusive)	36-37
comparison by districts, 1944-1948 (inclusive)	45
comparison of accidents for years 1915 to 1948, per 1,000,000 tons	105
P	
Per capita consumption of coal in Canada	26-27
Port Arthur, importations bituminous coal, 1919 to 1948 (inclusive).	29
Production bituminous coal by districts 1944-1948 (inclusive)	45
sub-bituminous coal by districts, 1944-1948 (inclusive)	45
per capita, total from 1906 to 1948 (inclusive)	84
per capita, domestic, from 1910 to 1944 (inclusive)	85
per capita, bituminous, from 1910 to 1948 (inclusive)	87
per capita, sub-bituminous, from 1922 to 1948 (inclusive)	86
per capita, anthracite, from 1910 to 1923 (inclusive)	87
per capita, bituminous field by districts, 1948	88
per capita, sub-bituminous field by districts, 1948	89
of coal per electrical horse-power	102
total, 1948	5, 45
total disposition by provinces, 1948	38
Prosecutions for contravention of The Coal Mines Regulation Act, number of	117, 118
Provisional certificates issued, number of	34
R	
Railroads, total coal sold for consumption by	5, 38, 41
total amount of bituminous coal sold for consumption by	39, 42, 74
Report of board of examiners	120
Report of Strip Mine Board of Examiners	122

INDEX—Continued

	Page
Rock, explosives used in coal-mines for blasting	100
number of shots fired for blasting	101
number of miss-fire shots in blasting	101
S	
Safety lamps, number of Edison and Koehler type	97
Sales, total by provinces, 1915 to 1948 (inclusive)	44
total bituminous by districts during each month	42
total sub-bituminous by districts during each month	43
Saskatchewan, importations bituminous coal, 1919 to 1948 (inclusive)	29
monthly importations bituminous coal, 1948	32
bricks shipped from shale mines to	35
hollow tile	35
total amount of bituminous coal sold for consumption in	39
total amount of sub-bituminous coal sold for consumption in	40
bituminous coal sold as mine-run for consumption in	54
bituminous coal sold as lump for consumption in	55
bituminous coal sold as nut for consumption in	55
bituminous coal sold as prepared stoker for consumption in	55
bituminous coal sold as nut-slack for consumption in	56
bituminous coal sold as slack for consumption in	56
sub-bituminous coal sold as mine-run for consumption in	56
sub-bituminous coal sold as lump for consumption in	57
sub-bituminous coal sold as nut for consumption in	57
sub-bituminous coal sold as prepared stoker for consumption in	58
sub-bituminous coal sold as nut-slack for consumption in	58
sub-bituminous coal sold as slack for consumption in	59
Second class certificates, issued in 1948	120
Serious accidents, above ground	34
below ground	34
Shale, total production, 1948	34
number of mines in operation	5, 34
Shots, fired blasing coal in each field by districts	99
miss-fires in blasting coal in each field by districts	99
fired in blasting rock in coal-mines	101
miss-fires in blasting rock in coal-mines	101
Stock, total coal put to	5, 38
total coal lifted from	5, 38
bituminous coal put to	38, 39, 75
sub-bituminous coal put to	38, 40, 76
bituminous coal lifted from	38, 39, 77
sub-bituminous coal lifted from	38, 40, 78
Strip Mine Board of Examiners, report of	122
Strip Mine Managers' Certificates issued in 1948	122, 123
Sub-bituminous coal, disposition of total output by districts	47
production by districts from 1944-1948 (inclusive)	45
production by months during 1948	43
total output by districts during each month	47
total amount sold for consumption in Alberta	51-54
sold as mine-run for consumption in Alberta	51
sold as lump for consumption in Alberta	52
sold as nut for consumption in Alberta	52
sold as prepared stoker for consumption in Alberta	53
sold as nut-slack for consumption in Alberta	53
sold as slack for consumption in Alberta	54
sold as mine-run for consumption in Saskatchewan	56
sold as lump for consumption in Saskatchewan	57
sold as nut for consumption in Saskatchewan	57
sold as prepared stoker for consumption in Saskatchewan	58
sold as nut-slack for consumption in Saskatchewan	58
sold as slack for consumption in Saskatchewan	59
sold as mine-run for consumption in British Columbia	61
sold as lump for consumption in British Columbia	61
sold as nut for consumption in British Columbia	62
sold as prepared stoker for consumption in British Columbia	62
sold as nut-slack for consumption in British Columbia	63
sold as slack for consumption in British Columbia	63
sold as mine-run for consumption in Manitoba	65
sold as lump for consumption in Manitoba	66
sold as nut for consumption in Manitoba	66
sold as prepared stoker for consumption in Manitoba	67
sold as nut-slack for consumption in Manitoba	67
sold as slack for consumption in Manitoba	67
sold as mine-run for consumption in Ontario	69
sold as lump for consumption in Ontario	70
sold as nut for consumption in Ontario	70
sold as prepared stoker for consumption in Ontario	70
sold as nut-slack for consumption in Ontario	71
sold as slack for consumption in Ontario	71
sold as lump for consumption in United States	73
sold as nut for consumption in United States	73

INDEX—Continued

	Page
sold as prepared stoker for consumption in United States	73
used under colliery boilers	74
put to stock	76
lifted from stock	78
put on waste heap	77
lifted from waste	78
number of mines classified according to output	79
mines, number of men employed at Dec. 31st, 1948	81
number of men employed by districts classified as to occupation	81
total men employed each month by districts	83
per capita production for years 1922 to 1948 (inclusive)	86
per capita production for years 1948	89
number of days worked each month by districts	91
number of shifts worked each month by districts	95
quantity of timber used by districts	96
quantity of explosives used in coal	97
tons of coal produced per pound of explosive used	98
number of shots fired blasting coal	99
number of miss-fire shots in blasting coal	100
coal, tons produced per accident	106
mines, accidents classified according to cause in	113-114
districts, accidents classified according to mines in	116
Summary of Statistics	34-35
T	
Third class certificates, issued in 1948	120-121
Timber, quantity used in the bituminous coal field	96
quantity used in the sub-bituminous coal field	96
Tile, hollow, production and distribution	35
U	
United States, total amount of bituminous coal sold for consumption in	38, 39, 42
total amount of sub-bituminous sold for consumption in	38, 40, 43
bituminous coal, mine-run, sold for consumption in	71
bituminous coal, lump, sold for consumption in	72
bituminous coal, nut, sold for consumption in	72
bituminous coal, prepared stoker, sold for consumption in	72
bituminous coal, nut-slack, sold for consumption in	72
bituminous coal, slack, sold for consumption in	73
sub-bituminous coal, lump, sold for consumption in	73
sub-bituminous coal, nut, sold for consumption in	73
sub-bituminous coal, prepared stoker, sold for consumption in	73
in	73
V	
Value of annual output of Alberta coal, 1886 to 1947 (inclusive)	25
W	
Waste heap, total coal put on	5, 38
total coal lifted from	38, 41
bituminous coal put on	38, 39, 42, 76
sub-bituminous coal put on	38, 40, 43, 77
bituminous coal lifted from	38, 39, 42, 78
sub-bituminous coal lifted from	38, 40, 43, 78
Workmen, number prosecuted	7, 117-118

Date Due

[illegible]

TN 27 A3 A3379 1945/1948
ALBERTA MINES BRANCH
ANNUAL REPORT/

SERIAL MI 39788682 SCI



000036404754

ONE WEEK LOAN

GENERAL SCIENCES

TN
27
A3A3379
1945/48

2226811

SCIENCE
CAMERON LIBRARY

